

STL Sacramento  
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December 20, 2004

STL SACRAMENTO PROJECT NUMBER: G4L020335  
PO/CONTRACT: W91238-04-F-0084

Dan Jablonski  
CH2M Hill Inc  
3 Hutton Centre Drive  
Suite 200  
Santa Ana, CA 92707

Dear Mr. Jablonski,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on December 2, 2004. These samples are associated with your Omega Superfund project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4362.

Sincerely,



Diana Brooks  
Project Manager

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## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G4L020335

#### General Comments

Samples OC2-00-W-2-78, OC2-OW7-W-5--79, OC2-4B-W-0-80, and OC2-OW4A-W-0-81 were not received but listed on the chain of custody form.

#### WATER, 1625 Modified, Semivolatiles by HRMS

Sample(s): 1, 2, 3, 4

The recovery for the internal standard for the d6-Nitrosodimethylamine (d6-NDMA), and the d5-1,2,3-Trichloropropane had recoveries below the recommended limit of 25%. This is directly due to losses during the solvent reduction steps due to the extreme volatility of these compounds.

Isotope dilution generally precludes any adverse impact to the target compound quantitation when a signal to noise of 10:1 is achieved. In all cases this criteria was met and there is no impact to the reported data.

Note: isotope dilution recovery corrects for losses during extraction, and the sample preparation procedures

There were no other anomalies associated with this project.

**STL Sacramento Certifications/Accreditations**

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arkansas	NA	South Carolina	87014001
Connecticut	PH-0691	Virginia	00178
Georgia	960	West Virginia	9930C, 334
Louisiana*	01944	NFESC	NA
Nevada	CA 044	USACE	NA
New York*	11666	USDA Foreign Soil	S-46613

\*NELAP accredited. A more detailed parameter list is available upon request.

**QC Parameter Definitions**

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary

## G4L020335

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
GX6EX	1	OC2-OW6-W-0-82	12/1/04 08:52 AM	12/2/04 09:15 AM
GX6FF	2	OC2-OW1B-W-0-83	12/1/04 11:35 AM	12/2/04 09:15 AM
GX6FQ	3	OC2-OW1A-W-3-84	12/1/04 10:30 AM	12/2/04 09:15 AM
GX6F1	4	OC2-OW3-W-0-85	12/1/04 12:35 PM	12/2/04 09:15 AM

### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

# Chain of Custody Record

STL-4124 (0901)

Client: CH2M HILL Project Manager: Tom PERINA Date: 12/1/04 Chain of Custody Number: 142800  
 Address: 3 HUTTON CENTER DRIVE STE 200 Telephone Number (Area Code)/Fax Number: 949 307 4364 Lab Number: \_\_\_\_\_  
 Page 1 of 1

City: SANTA ANA State: CA Zip Code: 92707 Site Contact: DAN JABLONSKI Lab Contact: DIANA BRUKS  
 Project Name and Location (State): OMEGA CHEMICAL/CV-2 WHITTIER CA Carrier/Waybill Number: 8470 2862 6812  
 Contract/Purchase Order/Quote No. \_\_\_\_\_

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives						Analysis (Attach list if more space is needed)			Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	123 TCF	NIDMA	COD				
* <u>OC2-CX-W-2-78</u>	<u>11/30/04</u>	<u>0820</u>		X											X				
* <u>OC2-OW7-W-5-79</u>		<u>0935</u>													X	X	X		
* <u>OC2-OW4B-W-0-80</u>		<u>1130</u>													X	X	X		
<u>OC2-OW4A-W-0-81</u>		<u>1305</u>													X	X	X		
<u>OC2-OW6-W-0-82</u>	<u>12/1/04</u>	<u>0852</u>													X	X	X		
<u>OC2-OW1B-W-0-83</u>		<u>1135</u>													X	X	X		
<u>OC2-OW1A-W-3-84</u>		<u>1030</u>													X				
<u>OC2-OW3-W-0-85</u>		<u>1235</u>		X											X	X	X		
<u>OC2-OW5-W-0-86 (CP)</u>																			
<u>OC2-OW5-W-1-87 (CP)</u>																			

RECEIVED IN GOOD CONDITION  
 UNDER DOC  
 DEC - 2 2004  
 INI *[Signature]*

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_ QC Requirements (Specify)

1. Relinquished By: <u>Chin Ro</u> Date: <u>12/1/04</u> Time: <u>1600</u>	1. Received By: <u>[Signature]</u> Date: <u>12-2-04</u> Time: <u>1220</u>
2. Relinquished By: _____ Date: _____ Time: _____	2. Received By: _____ Date: _____ Time: _____
3. Relinquished By: _____ Date: _____ Time: _____	3. Received By: _____ Date: _____ Time: _____

Comments: \* did not receive on 12-2-04  
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



# WATER, 1625 Modified, Semivolatiles by HRMS

CH2M Hill Inc

Client Sample ID: OC2-OW6-W-0-82

Trace Level Organic Compounds

Lot-Sample #...: G4L020335-001    Work Order #...: GX6EX1AC    Matrix.....: WATER  
Date Sampled...: 12/01/04    Date Received...: 12/02/04  
Prep Date.....: 12/03/04    Analysis Date...: 12/04/04  
Prep Batch #...: 4338287  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
N-Nitrosodimethylamine-d6	18 *	(25 - 150)
1,2,3-Trichloropropane-d5	61	(25 - 150)

NOTE(S) :

- \* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-OW1B-W-0-83

Trace Level Organic Compounds

Lot-Sample #....: G4L020335-002    Work Order #....: GX6FF1AC    Matrix.....: WATER  
Date Sampled....: 12/01/04    Date Received...: 12/02/04  
Prep Date.....: 12/03/04    Analysis Date...: 12/04/04  
Prep Batch #....: 4338287  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
N-Nitrosodimethylamine-d6	20 *	(25 - 150)
1,2,3-Trichloropropane-d5	67	(25 - 150)

**NOTE (S) :**

\* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-OW1A-W-3-84

Trace Level Organic Compounds

Lot-Sample #....: G4L020335-003    Work Order #....: GX6FQ1AA    Matrix.....: WATER  
Date Sampled....: 12/01/04    Date Received...: 12/02/04  
Prep Date.....: 12/03/04    Analysis Date...: 12/04/04  
Prep Batch #....: 4338287  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	4.1	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
N-Nitrosodimethylamine-d6	17 *	(25 - 150)
1,2,3-Trichloropropane-d5	58	(25 - 150)

NOTE (S) :

\* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-OW3-W-0-85

Trace Level Organic Compounds

Lot-Sample #....: G4L020335-004    Work Order #....: GX6F11AC    Matrix.....: WATER  
Date Sampled...: 12/01/04    Date Received...: 12/02/04  
Prep Date.....: 12/03/04    Analysis Date...: 12/04/04  
Prep Batch #....: 4338287  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
N-Nitrosodimethylamine-d6	16 *	(25 - 150)
1,2,3-Trichloropropane-d5	56	(25 - 150)

NOTE(S) :

\* Surrogate recovery is outside stated control limits.

# QC DATA ASSOCIATION SUMMARY

G4L020335

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 410.4		4342133	4342096
	WATER	CFR136A 1625 Modi		4338287	4338171
002	WATER	MCAWW 410.4		4342133	4342096
	WATER	CFR136A 1625 Modi		4338287	4338171
003	WATER	CFR136A 1625 Modi		4338287	4338171
004	WATER	MCAWW 410.4		4342133	4342096
	WATER	CFR136A 1625 Modi		4338287	4338171

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G4L020335      Work Order #...: GX8C21AA      Matrix.....: WATER  
MB Lot-Sample #: G4L030000-287      Prep Date.....: 12/03/04  
Analysis Date...: 12/04/04      Prep Batch #...: 4338287  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
		<u>PERCENT</u>	<u>RECOVERY</u>	
<u>INTERNAL STANDARDS</u>		<u>RECOVERY</u>	<u>LIMITS</u>	
N-Nitrosodimethylamine-d6	3.3 *		(25 - 150)	
1,2,3-Trichloropropane-d5	63		(25 - 150)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

\* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G4L020335      Work Order #...: GX8C21AC      Matrix.....: WATER  
 LCS Lot-Sample#: G4L030000-287  
 Prep Date.....: 12/03/04      Analysis Date...: 12/04/04  
 Prep Batch #...: 4338287  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	90	(70 - 130)	CFR136A 1625 Modifie
1,2,3-Trichloropropane	75	(50 - 150)	CFR136A 1625 Modifie

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
N-Nitrosodimethylamine-d6	20 *	(25 - 150)
1,2,3-Trichloropropane-d5	66	(25 - 150)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

\* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G4L020335      Work Order #...: GX8C21AC      Matrix.....: WATER  
 LCS Lot-Sample#: G4L030000-287  
 Prep Date.....: 12/03/04      Analysis Date...: 12/04/04  
 Prep Batch #...: 4338287  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
N-Nitrosodimethylamine	100	90.4	ng/L	90	CFR136A 1625
1,2,3-Trichloropropane	100	75.2	ng/L	75	CFR136A 1625

<u>INTERNAL STANDARD</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
N-Nitrosodimethylamine-d6	20 *	(25 - 150)
1,2,3-Trichloropropane-d5	66	(25 - 150)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

\* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G4L020335      Work Order #...: GX3LW1AF-MS      Matrix.....: WATER  
 MS Lot-Sample #: G4L010311-002      GX3LW1AG-MSD  
 Date Sampled...: 11/30/04      Date Received...: 12/01/04  
 Prep Date.....: 12/03/04      Analysis Date...: 12/04/04  
 Prep Batch #...: 4338287  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	72	(70 - 130)			CFR136A 1625 Modifie
	85	(70 - 130)	17	(0-20)	CFR136A 1625 Modifie
1,2,3-Trichloropropane	82	(50 - 150)			CFR136A 1625 Modifie
	84	(50 - 150)	2.0	(0-50)	CFR136A 1625 Modifie

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
N-Nitrosodimethylamine-d6	27	(25 - 150)
	31	(25 - 150)
1,2,3-Trichloropropane-d5	70	(25 - 150)
	86	(25 - 150)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G4L020335      Work Order #...: GX3LW1AF-MS      Matrix.....: WATER  
 MS Lot-Sample #: G4L010311-002      GX3LW1AG-MSD  
 Date Sampled...: 11/30/04      Date Received...: 12/01/04  
 Prep Date.....: 12/03/04      Analysis Date...: 12/04/04  
 Prep Batch #...: 4338287  
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
N-Nitrosodimethylamine	ND	100	72.0	ng/L	72		CFR136A 1625 Modifie
	ND	100	85.2	ng/L	85	17	CFR136A 1625 Modifie
1,2,3-Trichloropropane	ND	100	82.4	ng/L	82		CFR136A 1625 Modifie
	ND	100	84.0	ng/L	84	2.0	CFR136A 1625 Modifie

INTERNAL STANDARDS	PERCENT	RECOVERY
	RECOVERY	LIMITS
N-Nitrosodimethylamine-d6	27	(25 - 150)
	31	(25 - 150)
1,2,3-Trichloropropane-d5	70	(25 - 150)
	86	(25 - 150)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# **Raw Data Package**

## **Run/Batch Data**

***Includes (as applicable):***

***runlogs***

***continuing calibration standards***

***interference/performance check standards***

***continuing calibration blanks***

***method blanks***

***ics***

***ms/sd***

***sample raw data***

***ms tune data***

Run text: GX8C2-1-AAB      Sample text: GX8C2-1-AAB :G4L010311-1MB  
 Run #7    Filename: 03DE04B5SP    S: 9    I: 1    Results: 03DE045SP1625  
 Acquired: 4-DEC-04    00:43:41    Processed: 6-DEC-04    13:29:32  
 Run: 03DE04B5SP      Analyte: 1625      Cal: 16251203045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 1.000    L

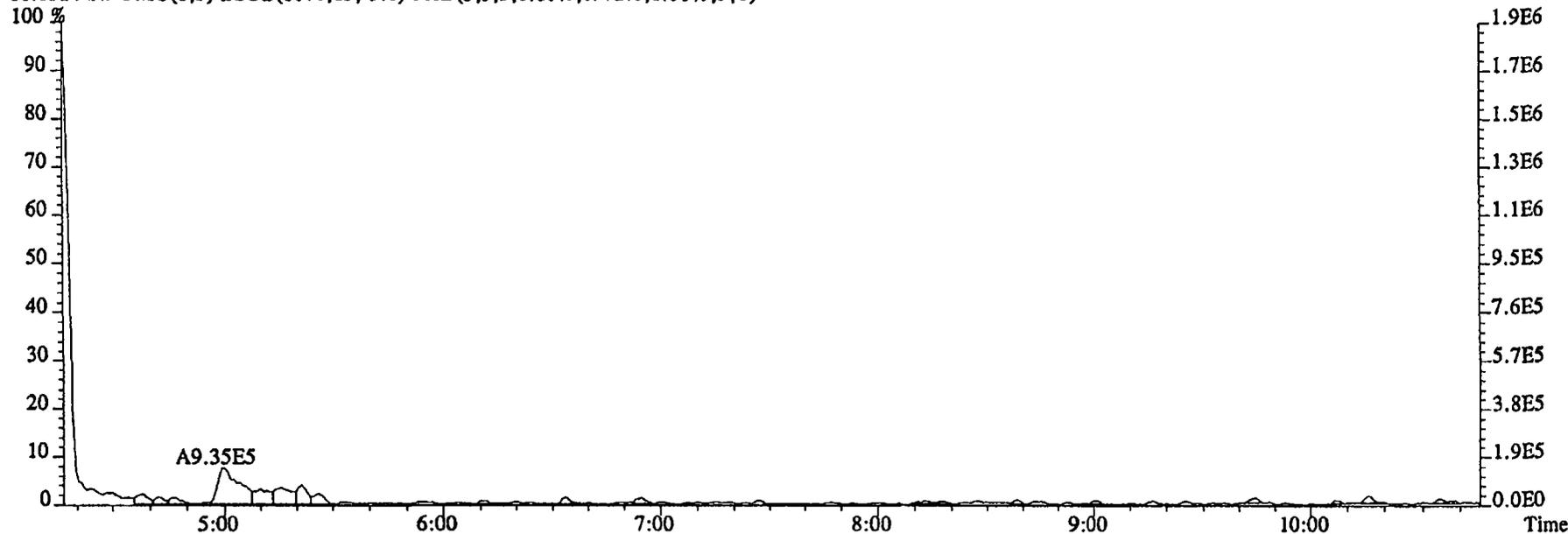
Name	Resp	RA	RT	RRF	Conc	DL	EDL	Rec	M
2-Chloropyridine	81961000		10:57	-	272.73		-	-	n
D8-1,4-Dioxane	11680800		4:59	0.99	28.87		0.14	2.9	n
1,4-Dioxane	934825		4:59	1.59	50.24		5.69	-	n
D5-123-TriChloroPropane	103451000		9:53	4.02	62.75		0.04	62.7	n
1,2,3-TriChloroPropane	*		NotFnd	0.39	*	25.0	0.37	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	3352220		10:03	2.49	3.29		0.03	3.3	n
NDMA	74214		10:04	1.10	2.01	DL 52.0	6-301.73	-	y
2-Chloropyridine	254343000		10:57	-	264.87		-	-	n

12.13.04  
C

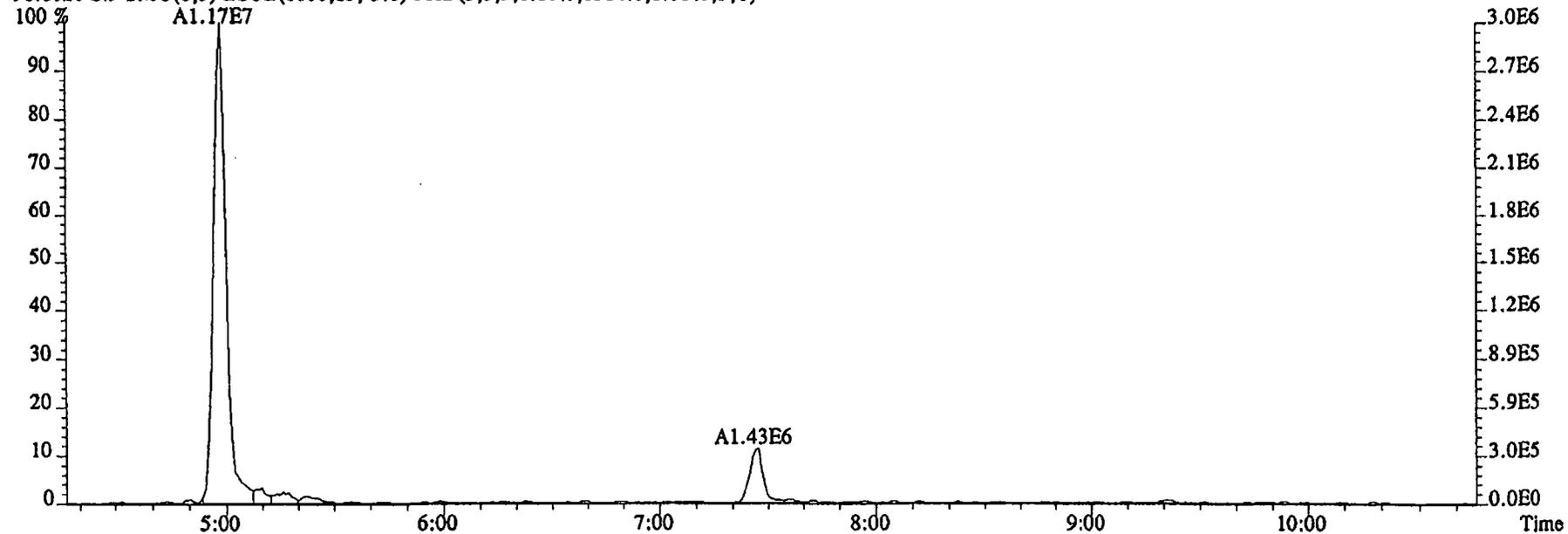
Run text: GX8C2-1-AAB Sample text: GX8C2-1-AAB :G4L010311-1MB  
 Run #7 Filename: 03DE04B5SP S: 9 I: 1 Results: 03DE045SP1625  
 Acquired: 4-DEC-04 00:43:41 Processed: 6-DEC-04 13:29:32  
 Run: 03DE04B5SP Analyte: 1625 Cal: 16251203045SP  
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	81961000		10:57	-	272.73	-	-	n
D8-1,4-Dioxane	11680800		4:59	0.99	28.87	0.14	2.9	n
1,4-Dioxane	934825		4:59	1.59	50.24	5.69	-	n
D5-123-TriChloroPropane	103451000		9:53	4.02	62.75	0.04	62.7	n
1,2,3-TriChloroPropane	*		NotFnd	0.39	*	0.37	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	3352220		10:03	2.49	3.29	0.03	3.3	n
NDMA	108358		10:04	1.10	2.93	6.30	-	n
2-Chloropyridine	254343000		10:57	-	264.87	-	-	n

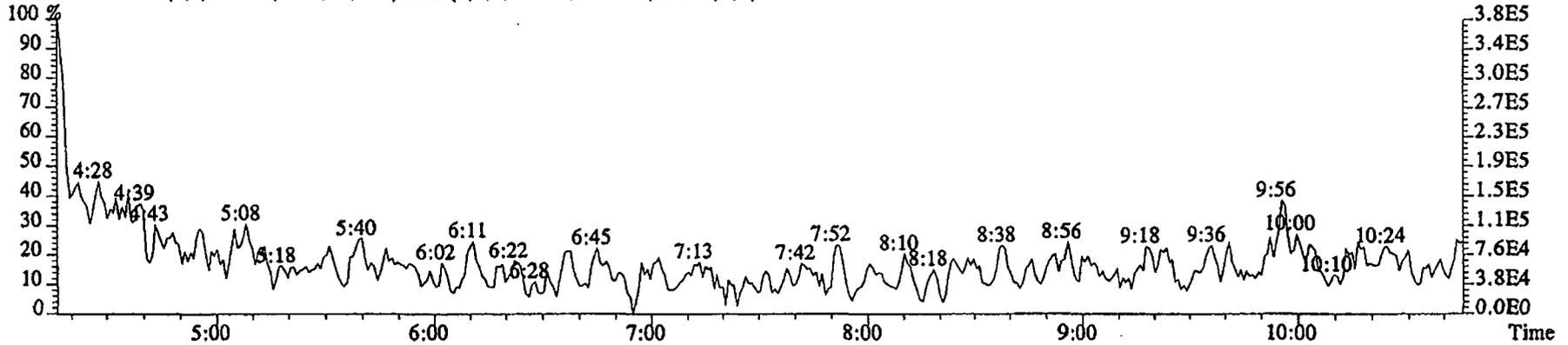
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:43:41 GC EI+ Voltage SIR 70SE  
Sample#9 Text:GX8C2-1-AAB :G4L010311-1MB Exp:NDMAVOA  
88.0524 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8972.0,1.00%,F,T)



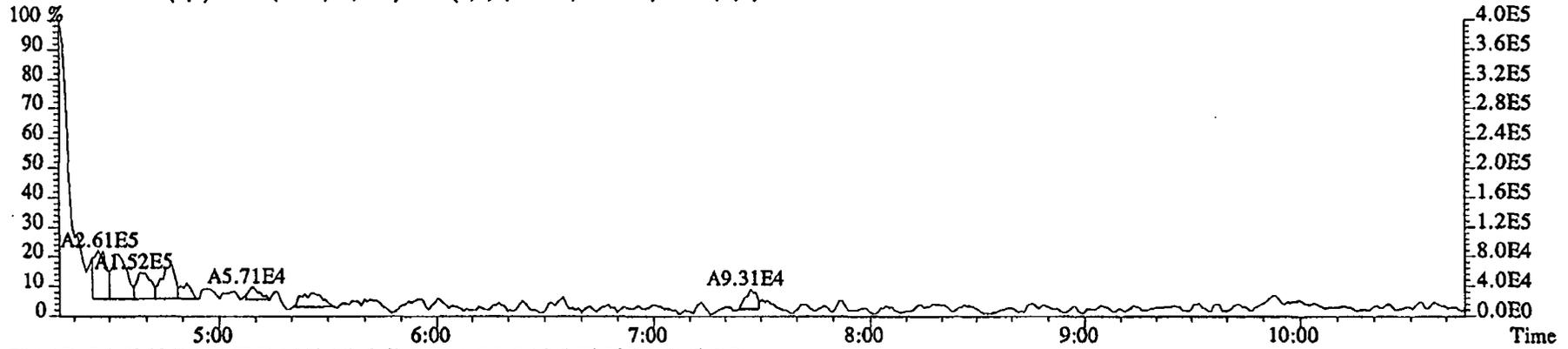
96.1026 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6584.0,1.00%,F,T)



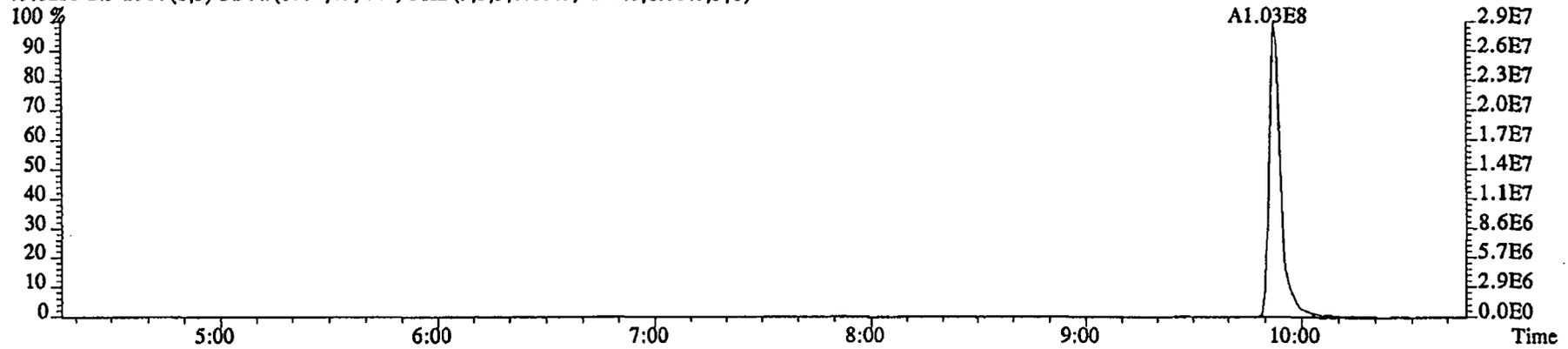
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:43:41 GC EI+ Voltage SIR 70SE  
Sample#9 Text:GX8C2-1-AAB :G4L010311-1MB Exp:NDMAVOA  
75.0002 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,75276.0,1.00%,F,T)



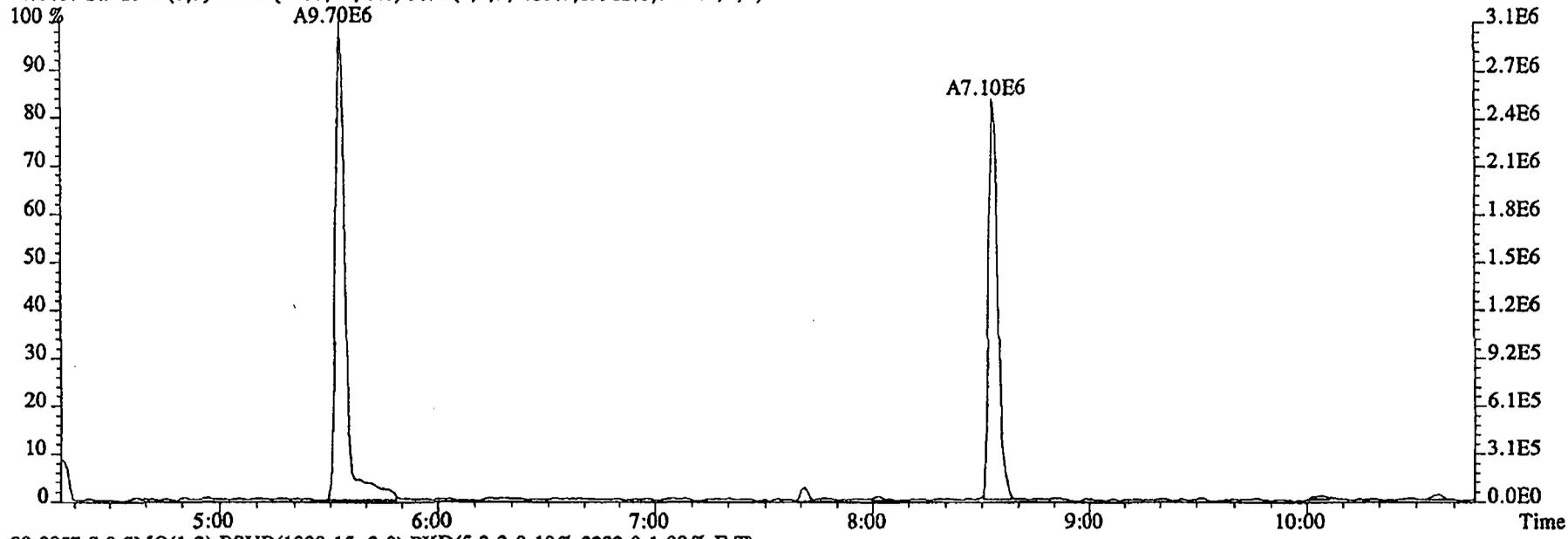
76.9972 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14004.0,1.00%,F,T)



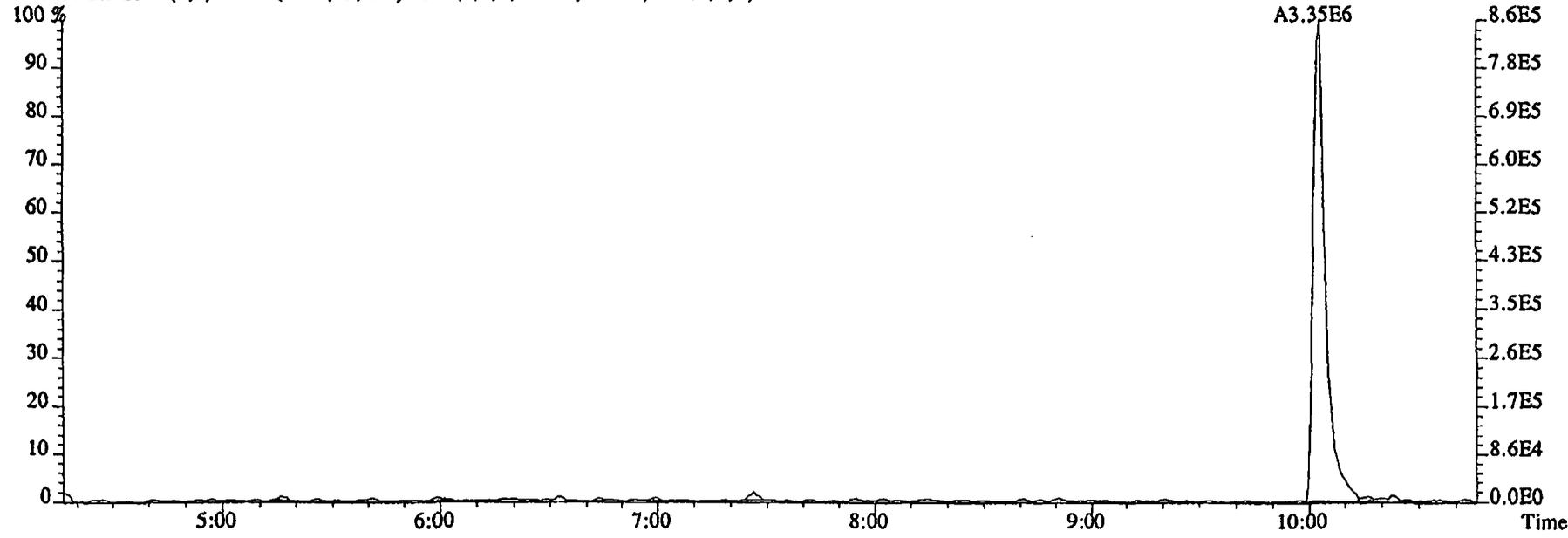
79.0253 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7256.0,1.00%,F,T)



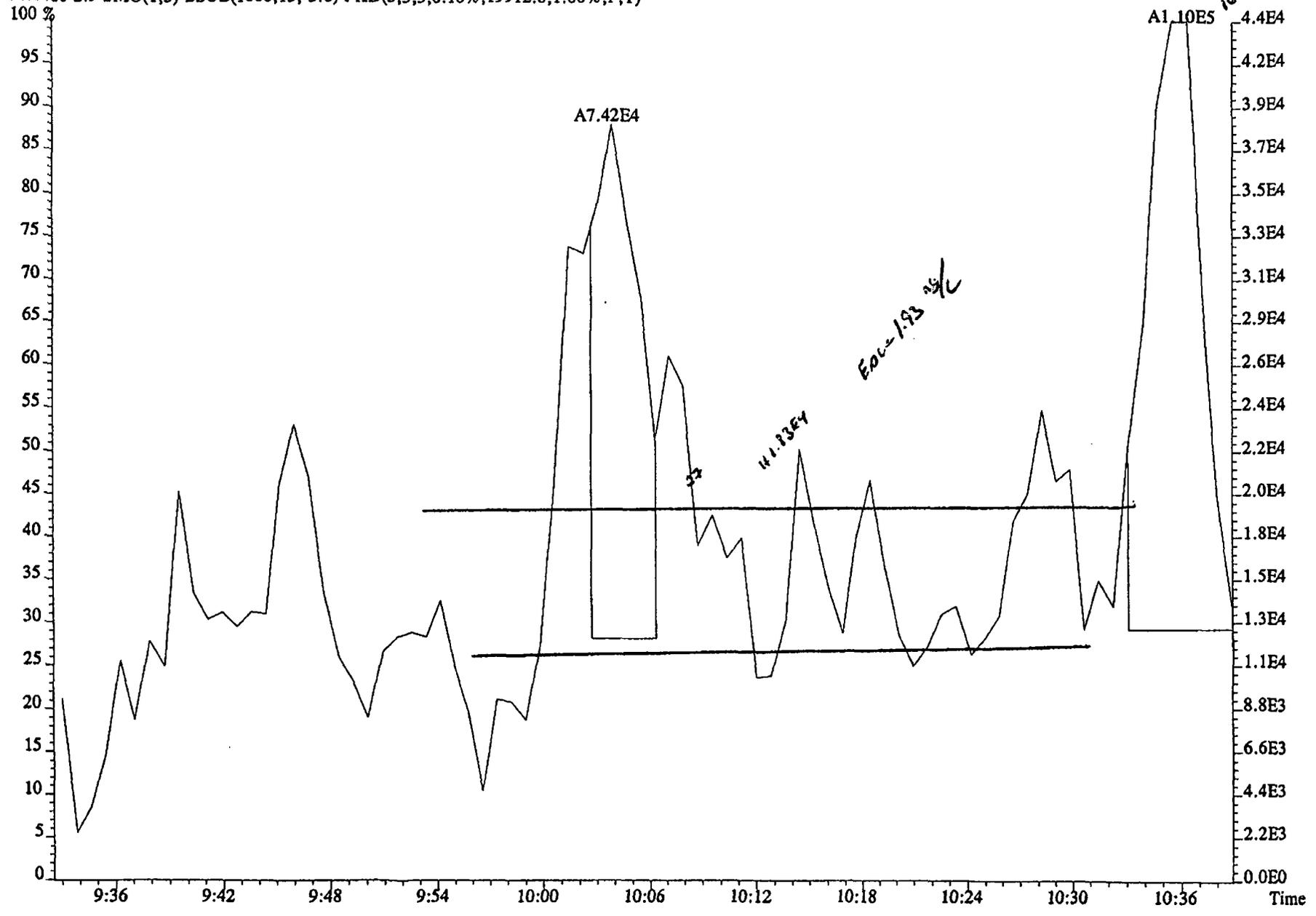
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:43:41 GC EI+ Voltage SIR 70SE  
Sample#9 Text:GX8C2-1-AAB :G4L010311-1MB Exp:NDMAVOA  
74.0480 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19912.0,1.00%,F,T)



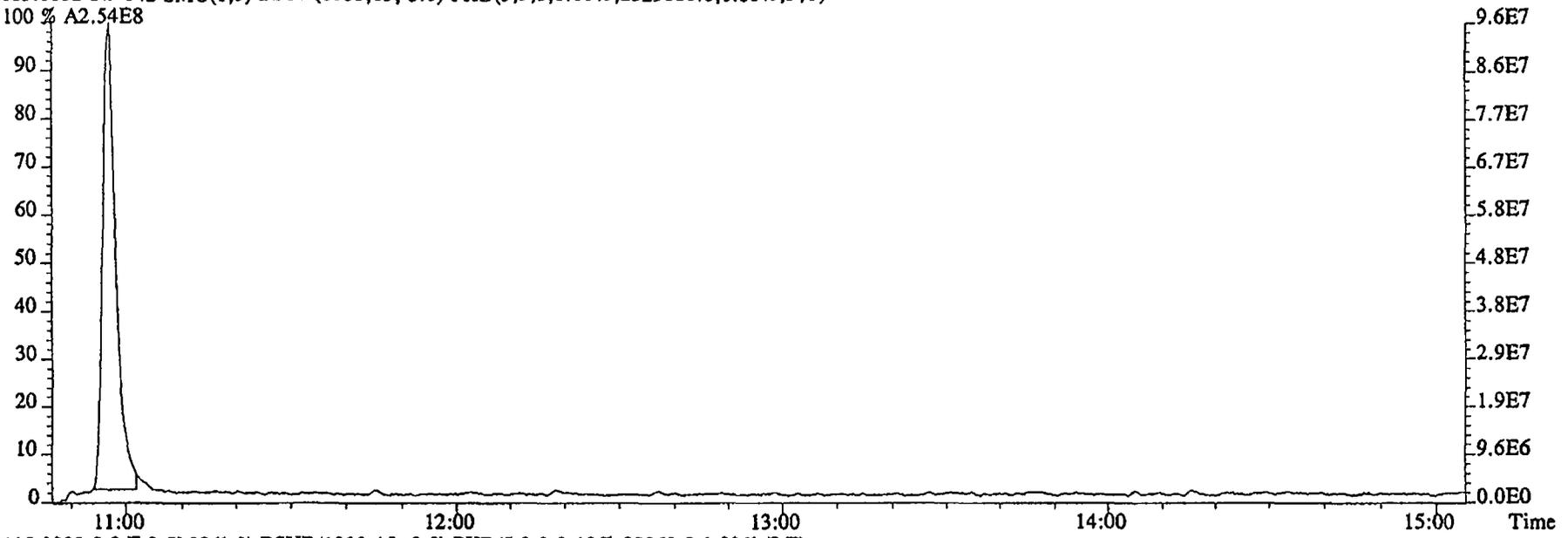
80.0857 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3232.0,1.00%,F,T)



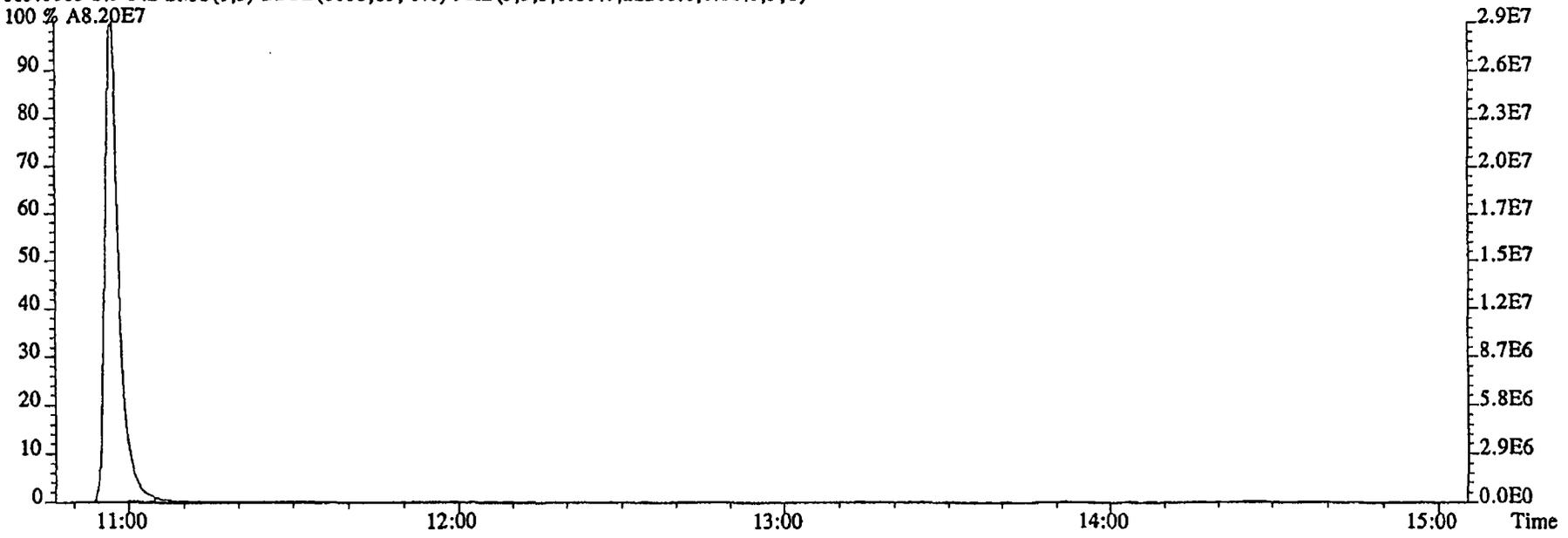
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:43:41 GC EI+ Voltage SIR 70SE  
Sample#9 Text:GX8C2-1-AAB :G4L010311-1MB Exp:NDMAVOA  
74.0480 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19912.0,1.00%,F,T)



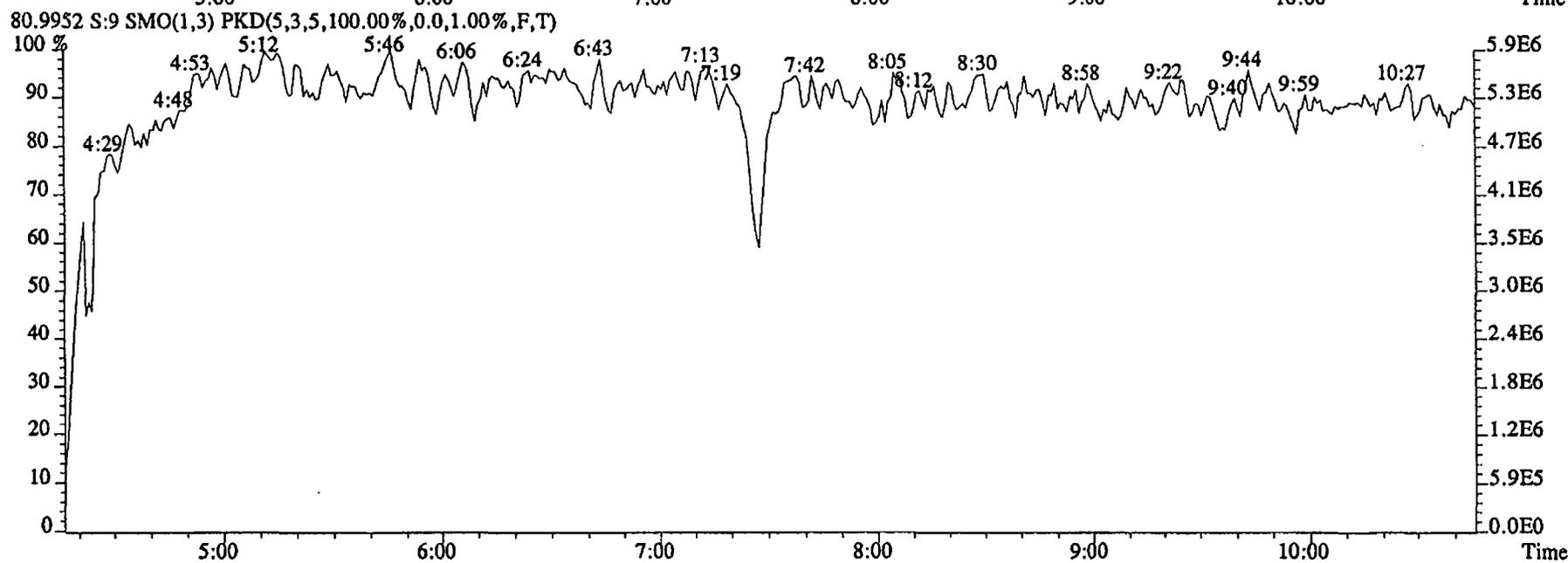
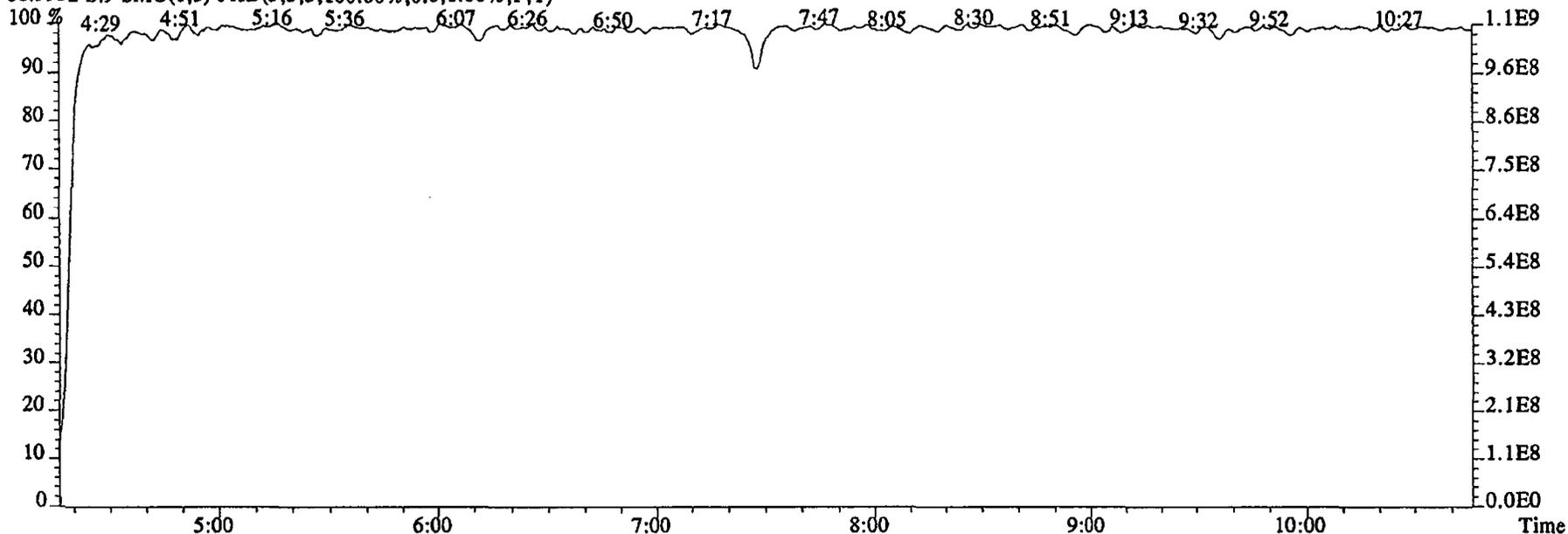
File:03DE04B5SP #1-603 Acq: 4-DEC-2004 00:43:41 GC EI+ Voltage SIR 70SE  
Sample#9 Text:GX8C2-1-AAB :G4L010311-1MB Exp:NDMAVOA  
113.0032 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2329080.0,1.00%,F,T)  
100 % A2.54E8



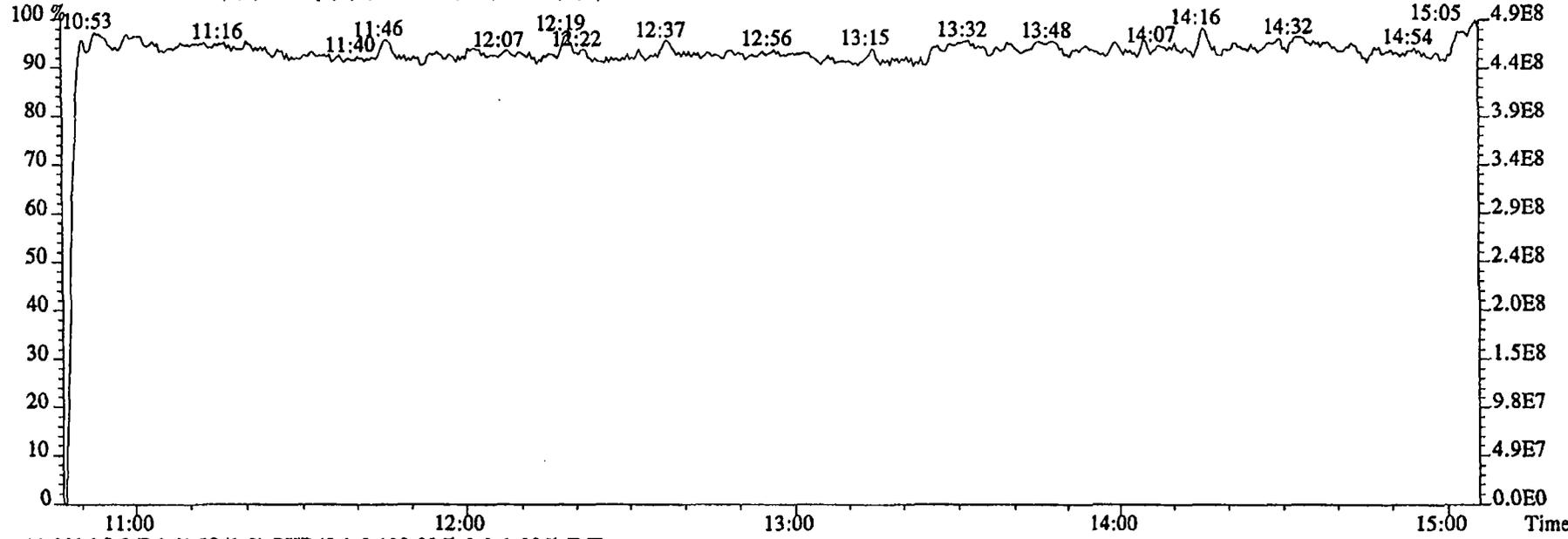
115.0003 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22260.0,1.00%,F,T)  
100 % A8.20E7



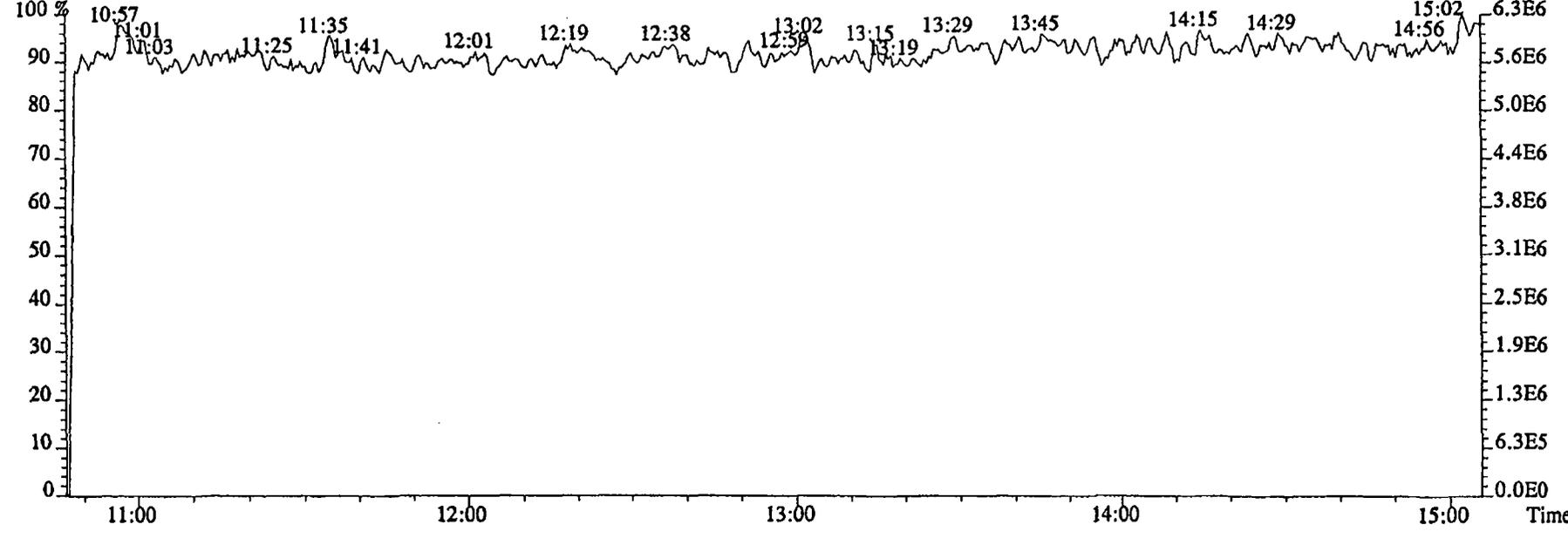
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:43:41 GC EI+ Voltage SIR 70SE  
Sample#9 Text:GX8C2-1-AAB :G4L010311-1MB Exp:NDMAVOA  
68.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-603 Acq: 4-DEC-2004 00:43:41 GC EI+ Voltage SIR 70SE  
Sample#9 Text:GX8C2-1-AAB :G4L010311-1MB Exp:NDMAVOA  
118.9920 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

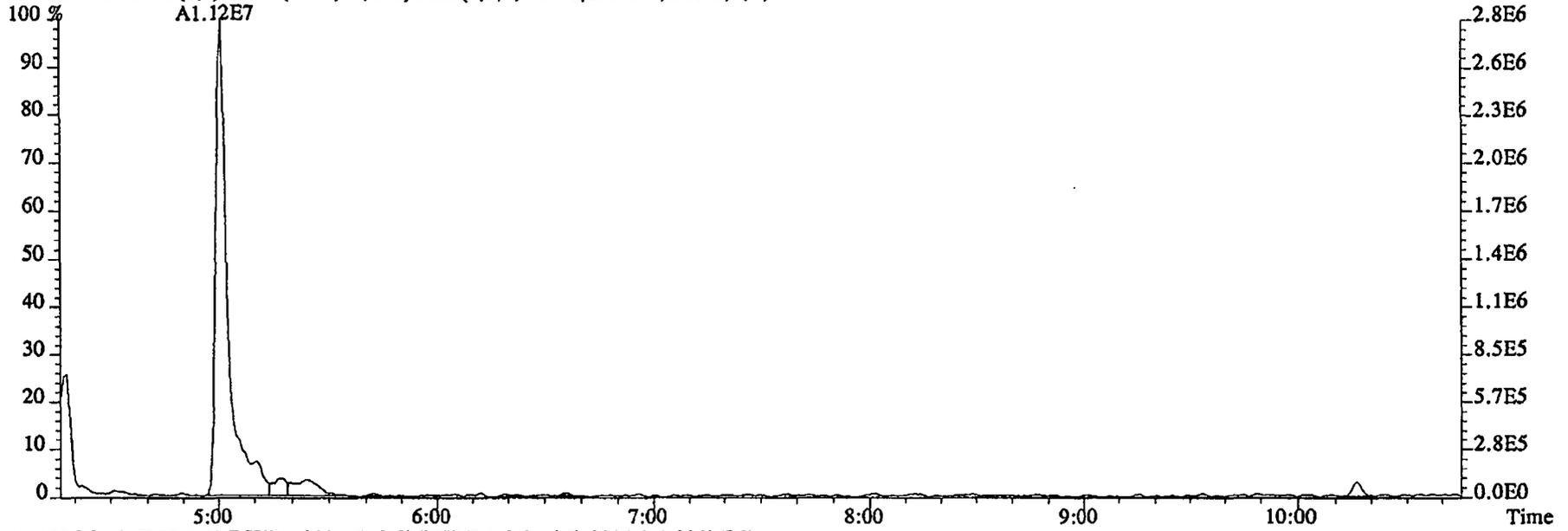


Run text: GX8C2-1-ACC Sample text: GX8C2-1-ACC :G4L010311-1LCS  
 Run #8 Filename: 03DE04B5SP S: 10 I: 1 Results: 03DE045SP1625  
 Acquired: 4-DEC-04 01:04:03 Processed: 6-DEC-04 13:29:33  
 Run: 03DE04B5SP Analyte: 1625 Cal: 16251203045SP  
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

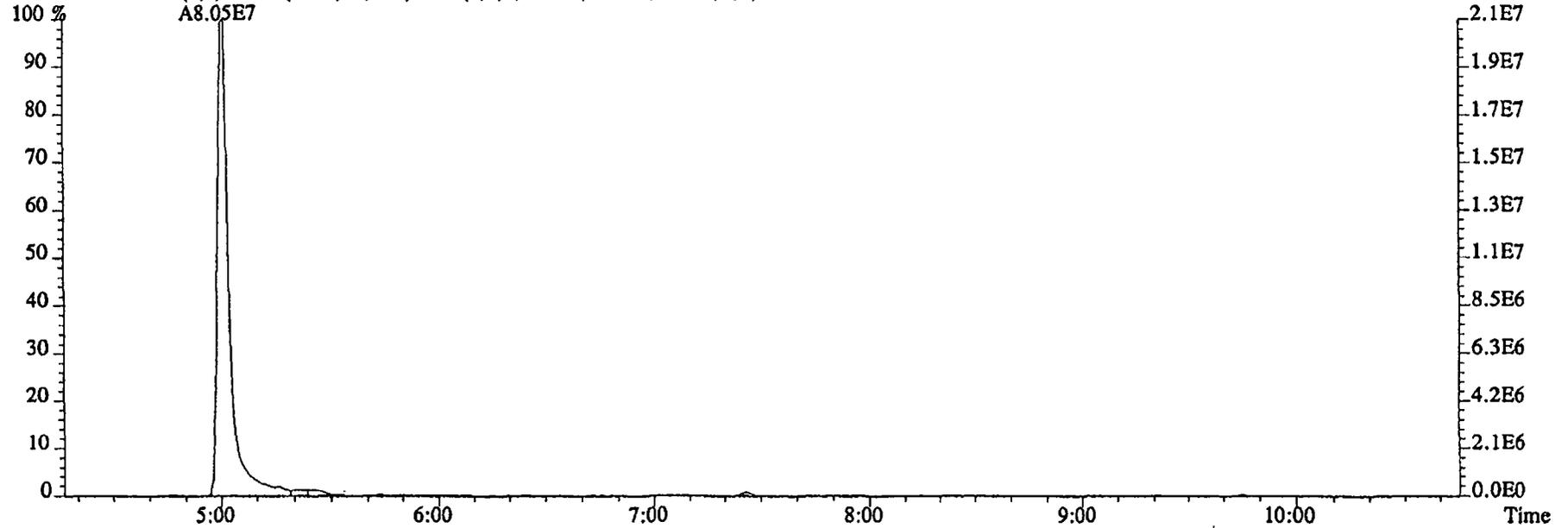
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	98471600		10:57	-	327.67	-	-	n
D8-1,4-Dioxane	80470000		5:01	0.99	165.56	0.13	16.6	n
1,4-Dioxane	11217900		5:01	1.59	87.51	1.39	-	n
D5-123-TriChloroPropane	130999000		9:53	4.02	66.14	0.02	66.1	n
1,2,3-TriChloroPropane	38553500		9:56	0.39	75.22 ✓	0.35	-	n
1,2,3-TriChloroPropane	118635000		9:56	-	86.23	-	-	n
D6-NDMA	24128200		10:04	2.49	19.70	0.02	19.7*	n
NDMA	24032600		10:03	1.10	90.42 ✓	0.73	-	n
2-Chloropyridine	317050000		10:57	-	330.17	-	-	n

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G

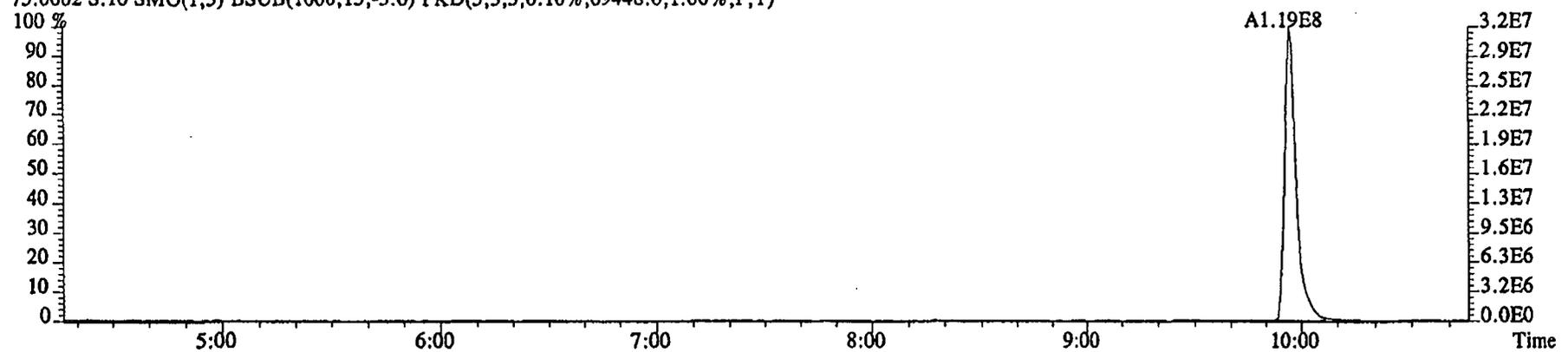
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 01:04:03 GC EI+ Voltage SIR 70SE  
Sample#10 Text:GX8C2-1-ACC :G4L010311-1LCS Exp:NDMAVOA  
88.0524 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15548.0,1.00%,F,T)



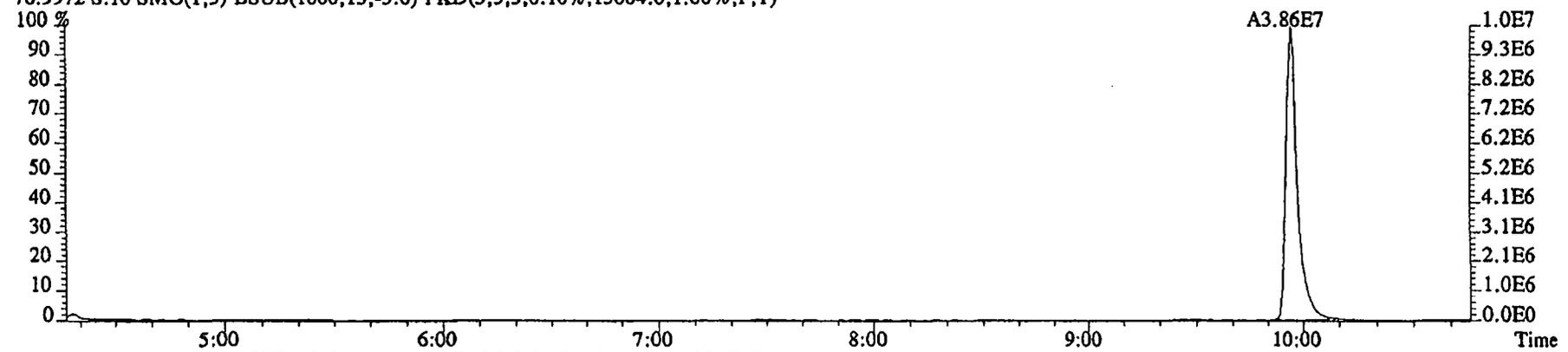
96.1026 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8004.0,1.00%,F,T)



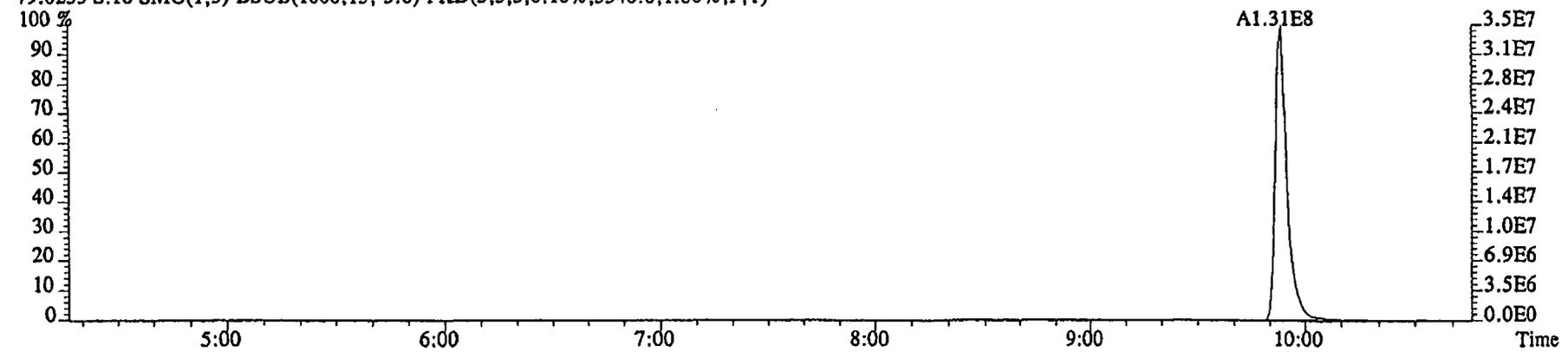
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 01:04:03 GC EI+ Voltage SIR 70SE  
Sample#10 Text:GX8C2-1-ACC :G4L010311-1LCS Exp:NDMAVOA  
75.0002 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,69448.0,1.00%,F,T)



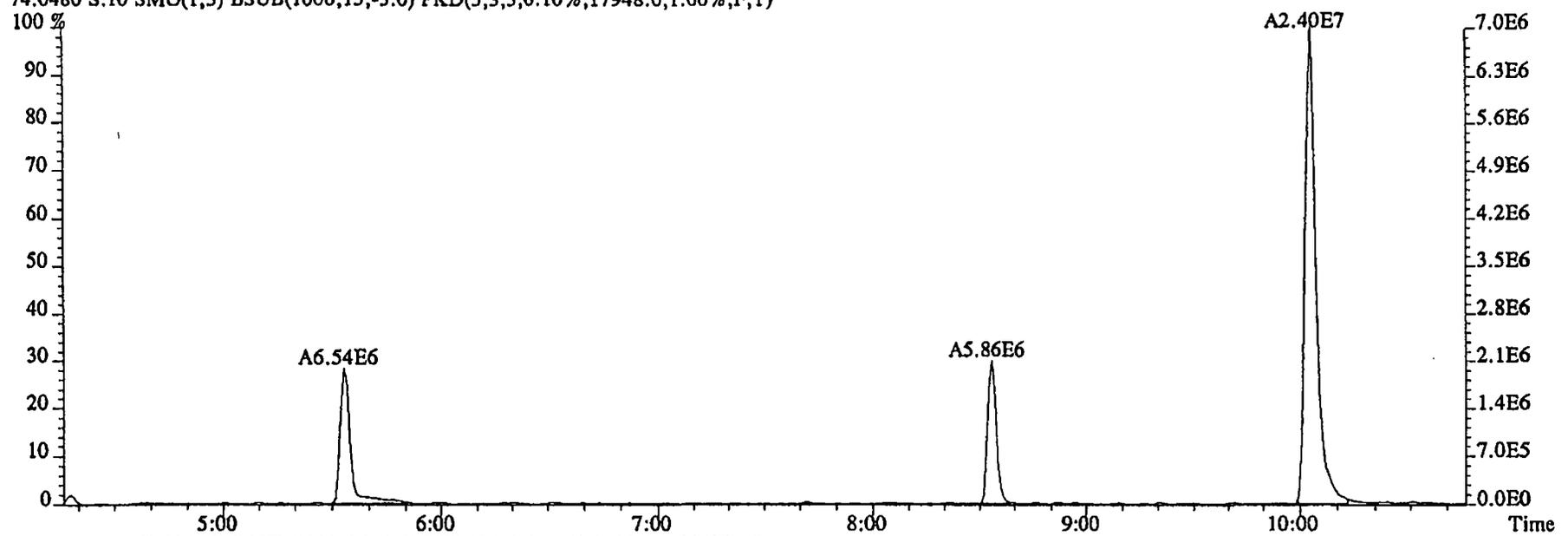
76.9972 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15664.0,1.00%,F,T)



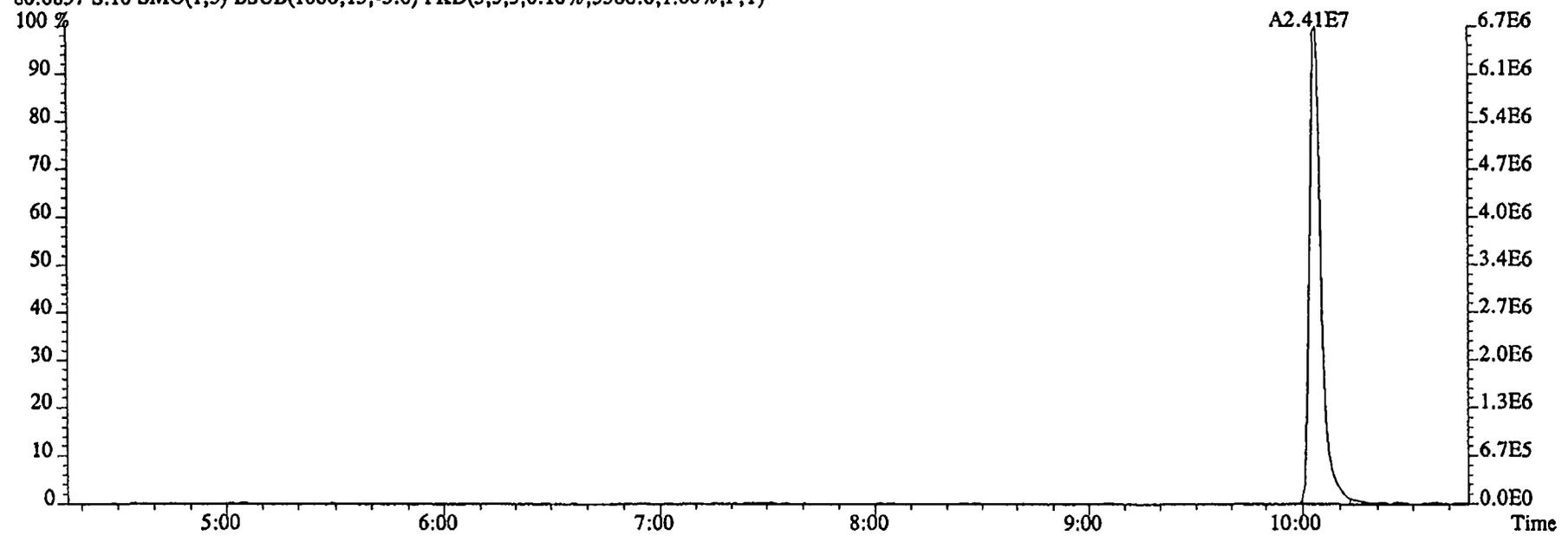
79.0253 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5340.0,1.00%,F,T)



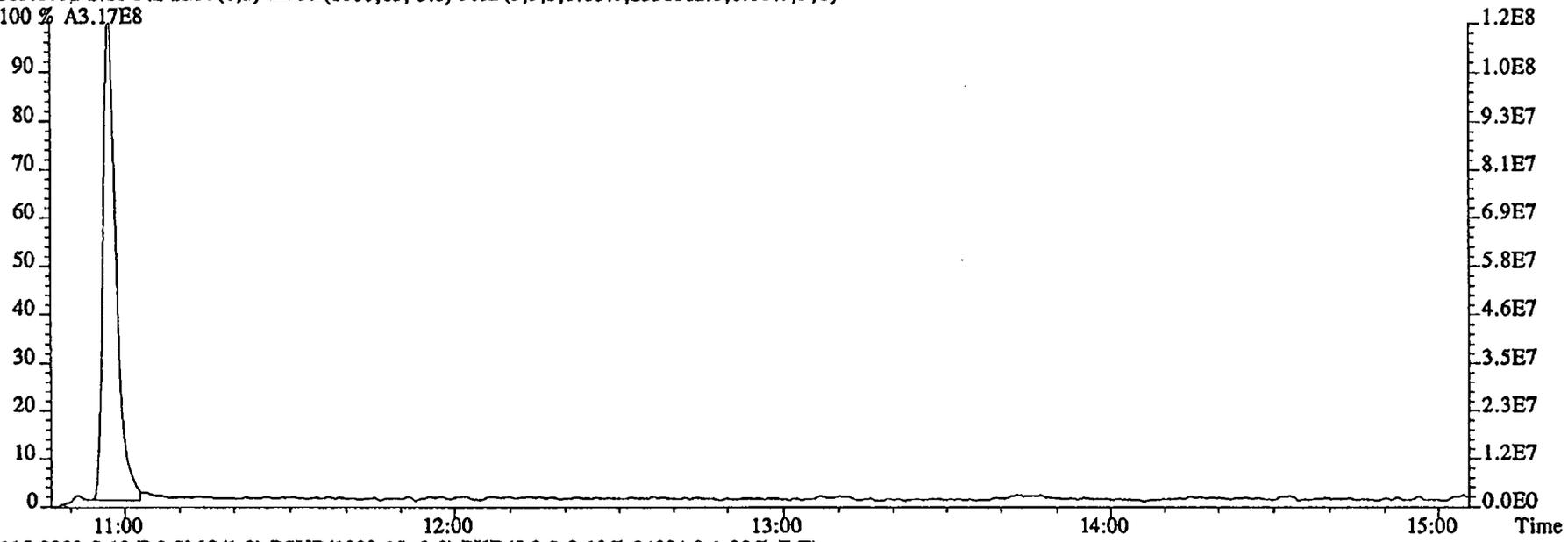
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 01:04:03 GC EI+ Voltage SIR 70SE  
Sample#10 Text:GX8C2-1-ACC :G4L010311-1LCS Exp:NDMAVOA  
74.0480 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17948.0,1.00%,F,T)



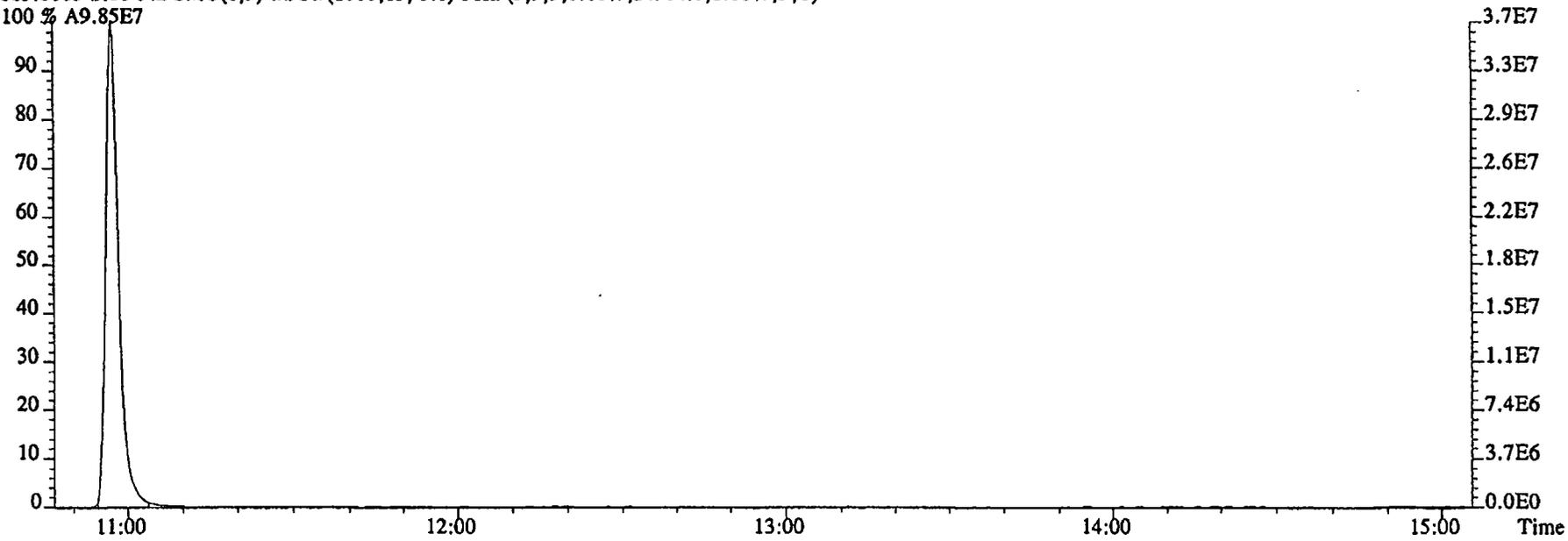
80.0857 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3588.0,1.00%,F,T)



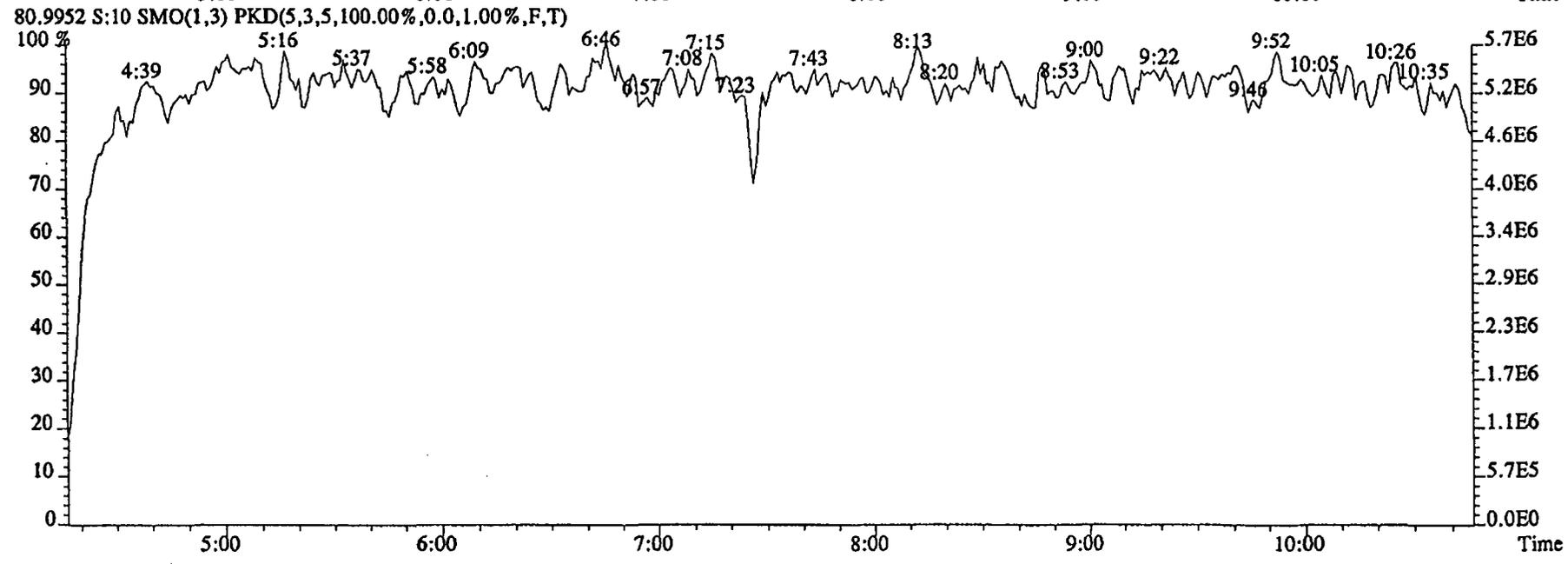
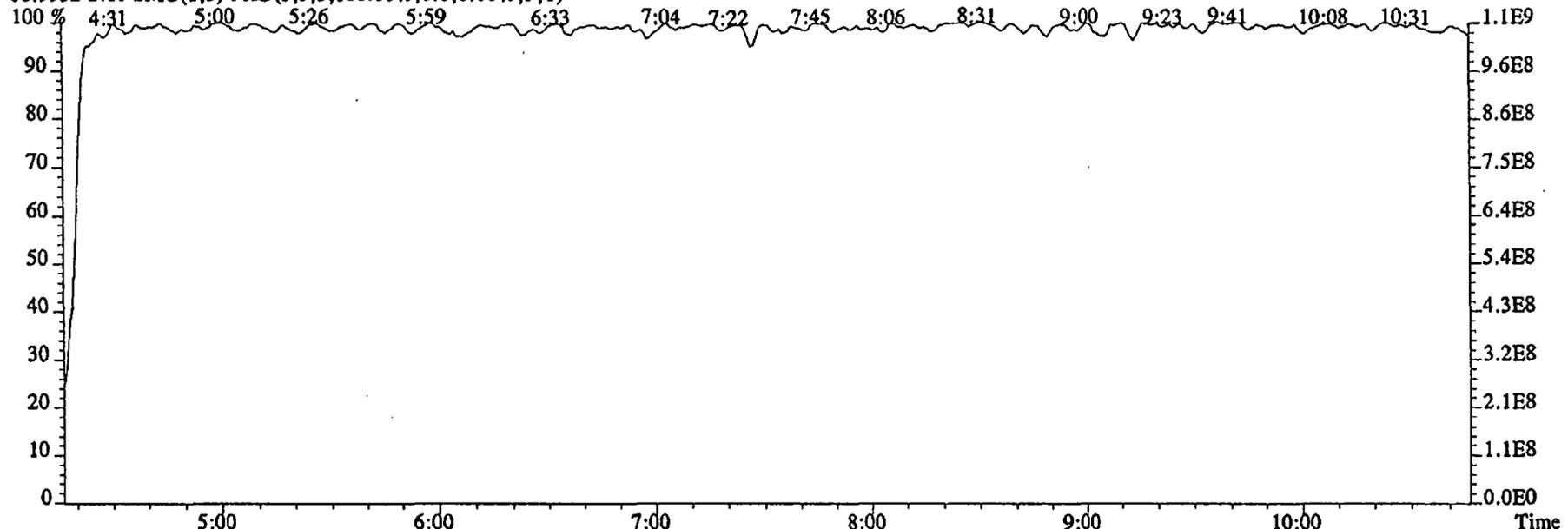
File:03DE04B5SP #1-603 Acq: 4-DEC-2004 01:04:03 GC EI+ Voltage SIR 70SE  
Sample#10 Text:GX8C2-1-ACC :G4L010311-1LCS Exp:NDMAVOA  
113.0032 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2558612.0,1.00%,F,T)  
100 % A3.17E8



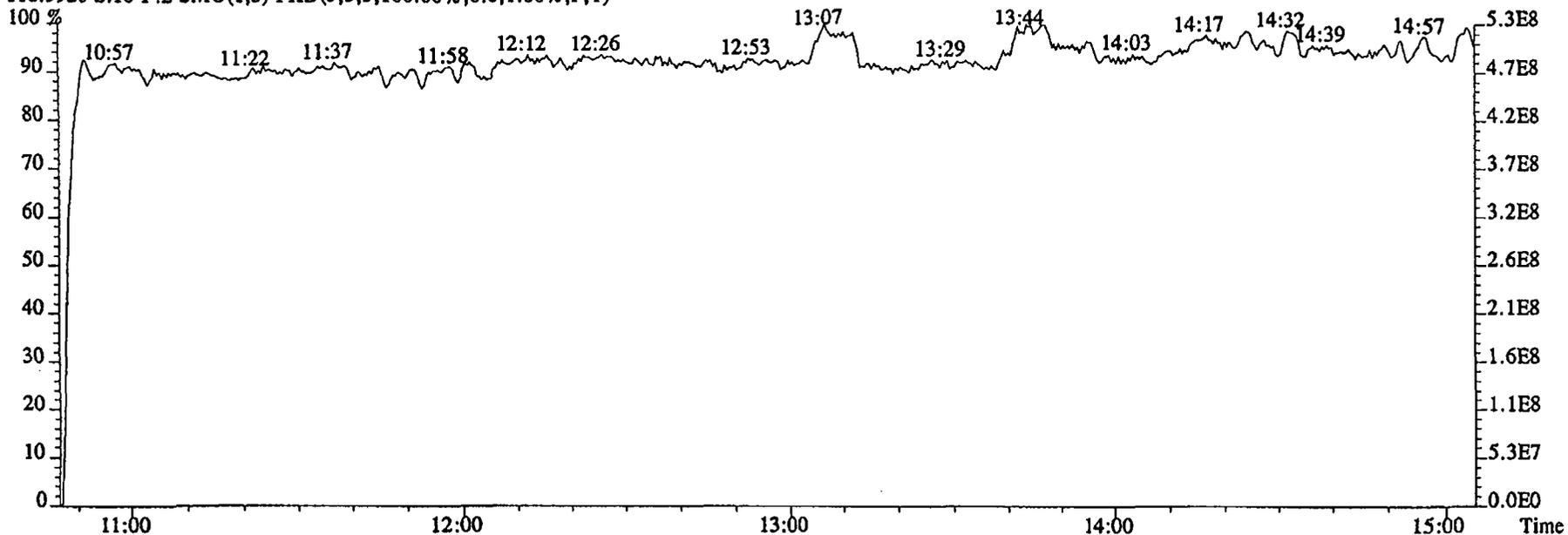
115.0003 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24984.0,1.00%,F,T)  
100 % A9.85E7



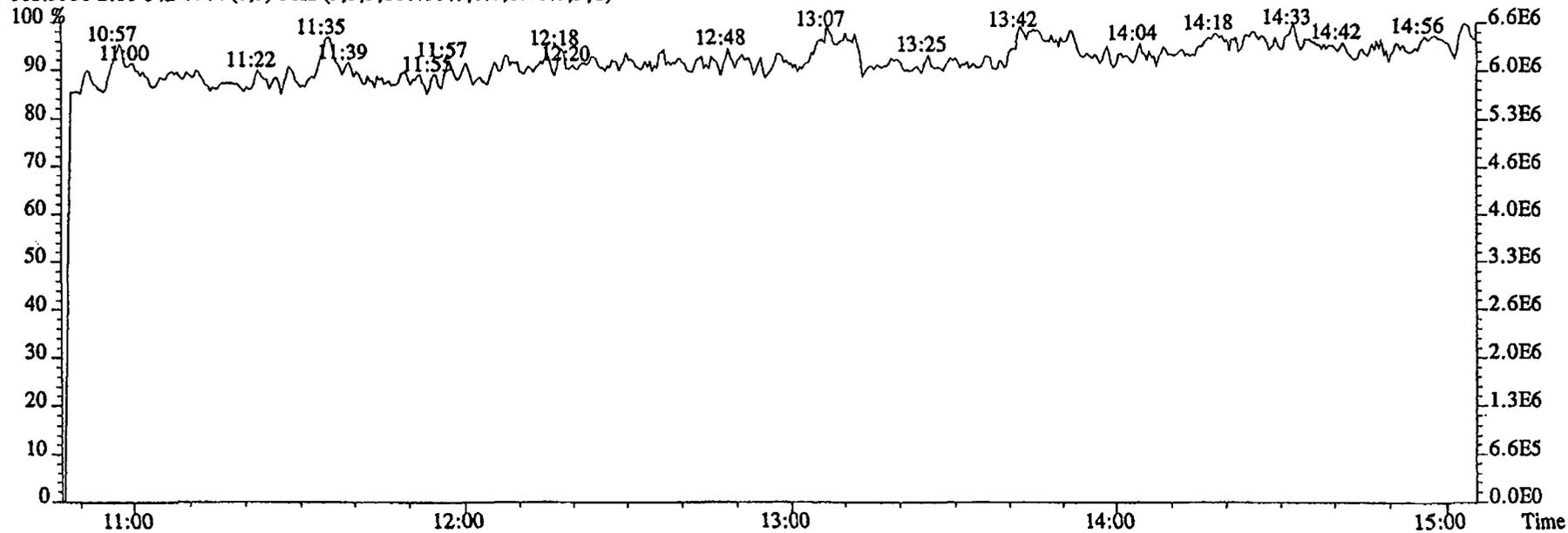
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 01:04:03 GC EI+ Voltage SIR 70SE  
Sample#10 Text:GX8C2-1-ACC :G4L010311-1LCS Exp:NDMAVOA  
68.9952 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-603 Acq: 4-DEC-2004 01:04:03 GC EI+ Voltage SIR 70SE  
Sample#10 Text:GX8C2-1-ACC :G4L010311-1LCS Exp:NDMAVOA  
118.9920 S:10 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:10 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

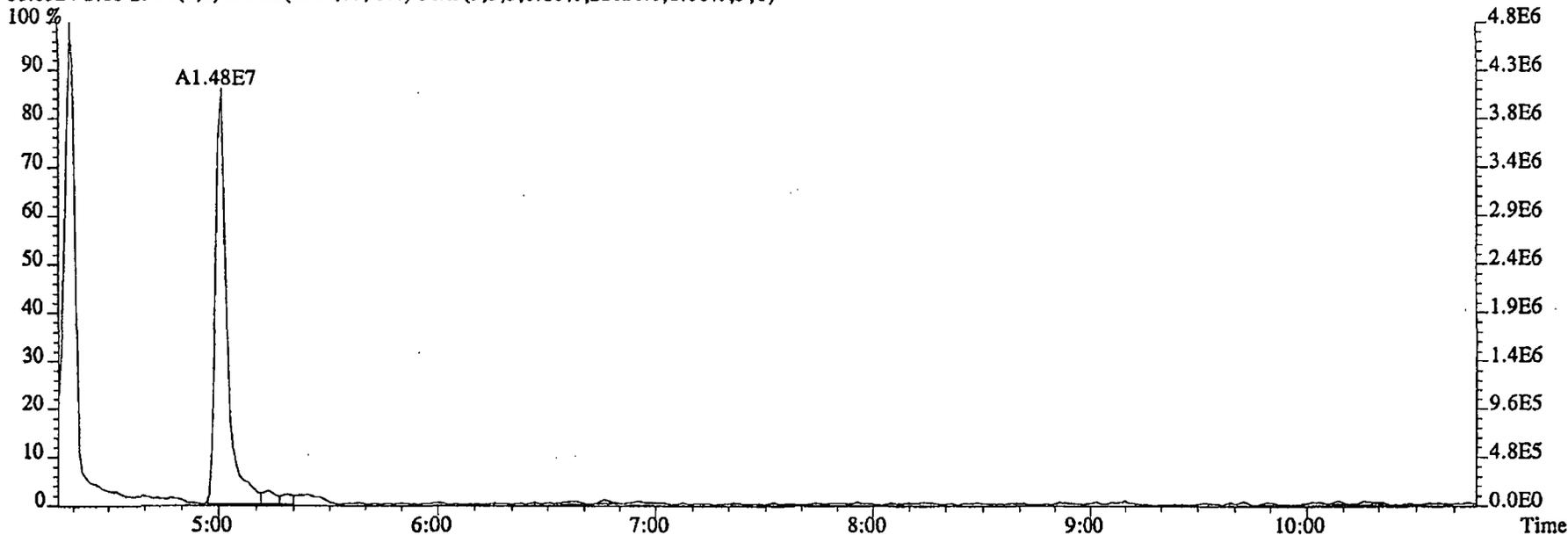


Run text: GX6EX-1-AC      Sample text: GX6EX-1-AC :G4L020335-1  
 Run #16 Filename: 03DE04B5SP S: 18 I: 1      Results: 03DE045SP1625  
 Acquired: 4-DEC-04      03:46:57      Processed: 6-DEC-04      13:29:36  
 Run: 03DE04B5SP      Analyte: 1625      Cal: 16251203045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.988      L

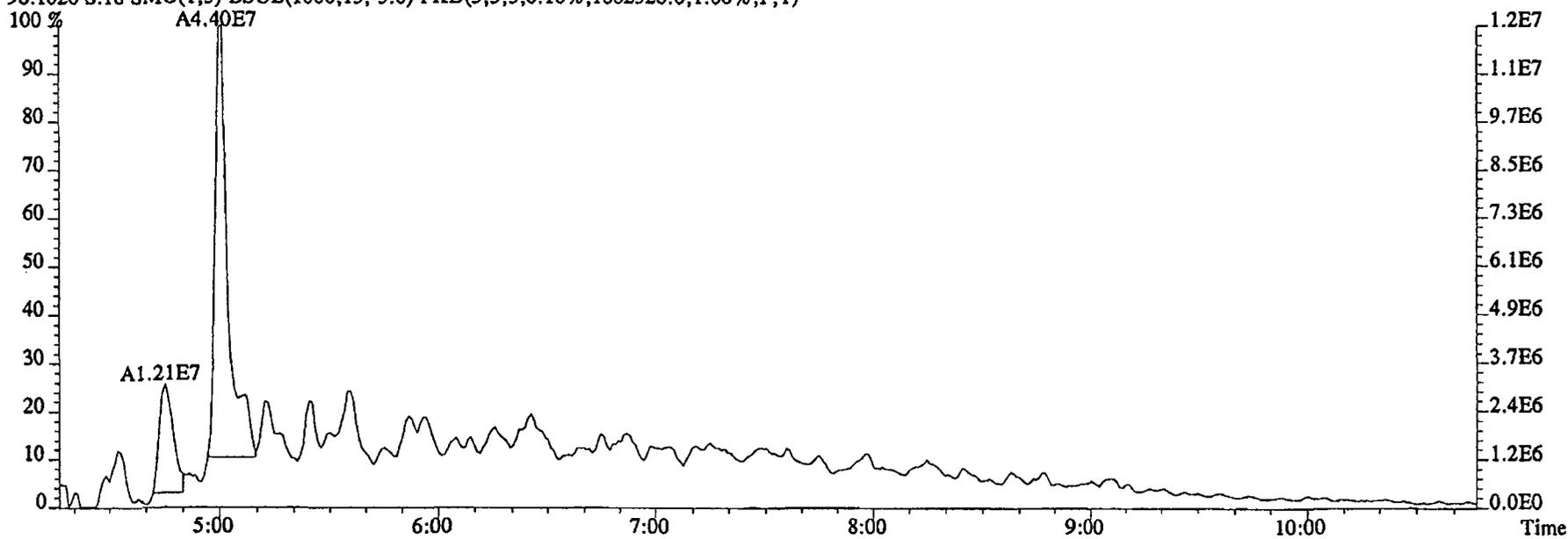
Name	Resp	RA	RT	RRF	Conc	<i>EL</i>	EDL	Rec	M
2-Chloropyridine	81738500		10:57	-	275.29		-	-	n
D8-1,4-Dioxane	44036000		5:01	0.99	110.48		36.70	10.9	n
1,4-Dioxane	14770000		5:01	1.59	213.11		3.96	-	n
D5-123-TriChloroPropane	100813000		9:53	4.02	62.06		0.51	61.3	n
1,2,3-TriChloroPropane	152053		10:06	0.39	<del>0.39</del> <i>65.0</i>		0.93	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	17844100		10:03	2.49	17.77		0.60	17.6	n
NDMA	*		NotFnd	1.10	*	<i>22.0</i>	1.33	-	n
2-Chloropyridine	264987000		10:57	-	279.31		-	-	n

*12-12-04*  
*8*

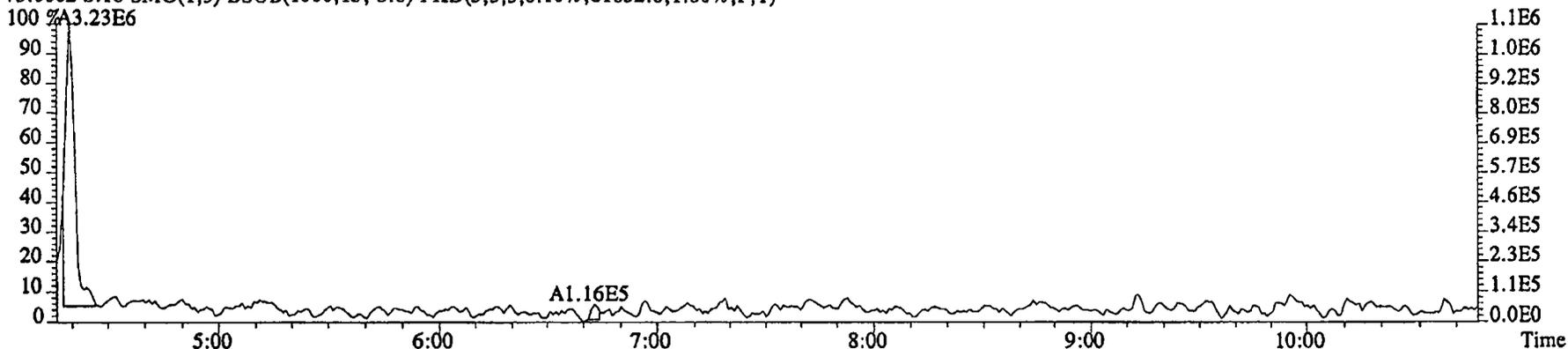
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 03:46:57 GC EI+ Voltage SIR 70SE  
Sample#18 Text:GX6EX-1-AC :G4L020335-1 Exp:NDMAVOA  
88.0524 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22628.0,1.00%,F,T)



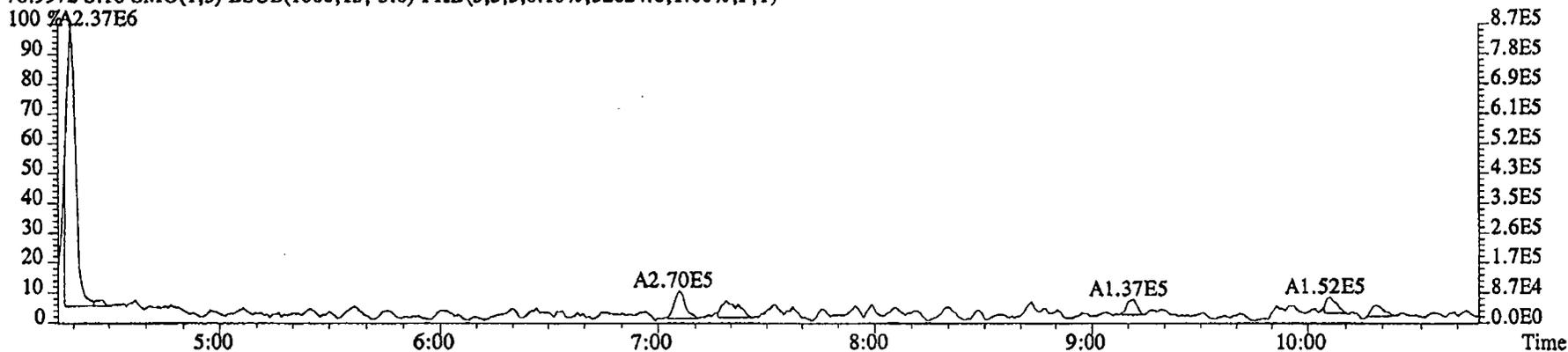
96.1026 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1882328.0,1.00%,F,T)



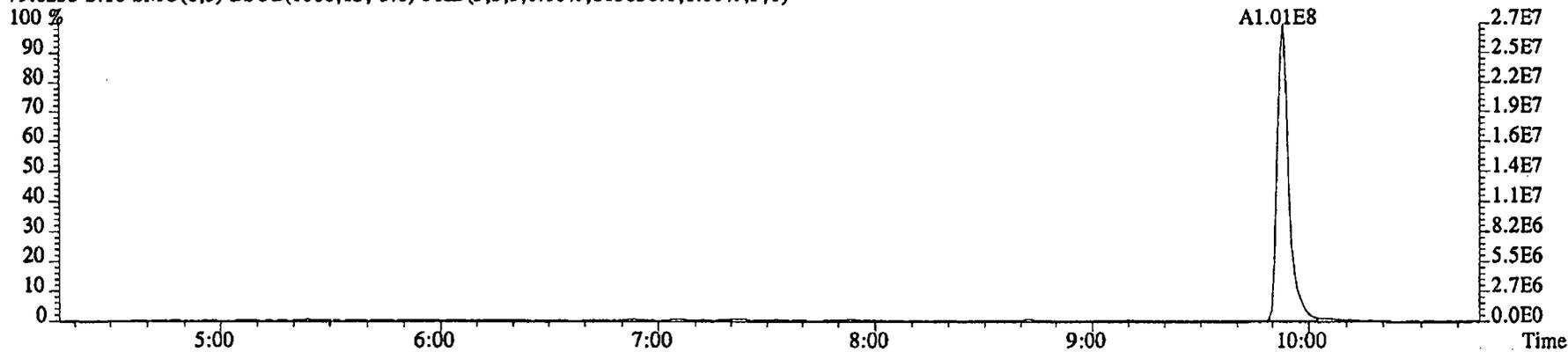
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 03:46:57 GC EI+ Voltage SIR 70SE  
Sample#18 Text:GX6EX-1-AC :G4L020335-1 Exp:NDMAVOA  
75.0002 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61852.0,1.00%,F,T)



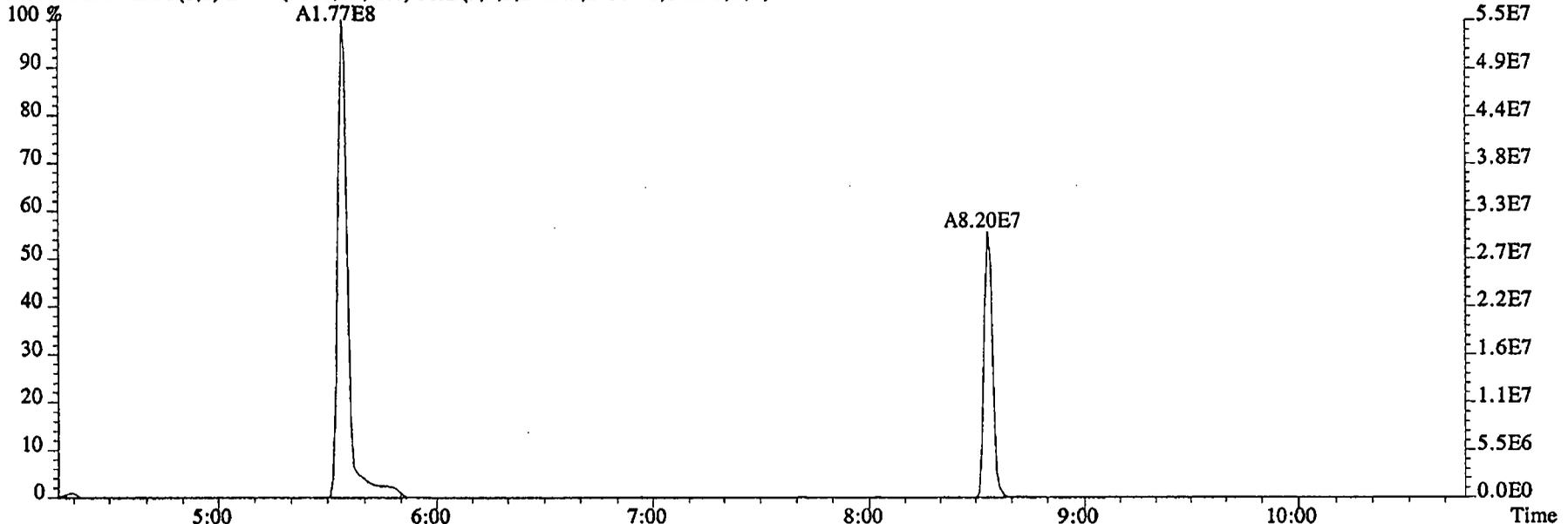
76.9972 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32824.0,1.00%,F,T)



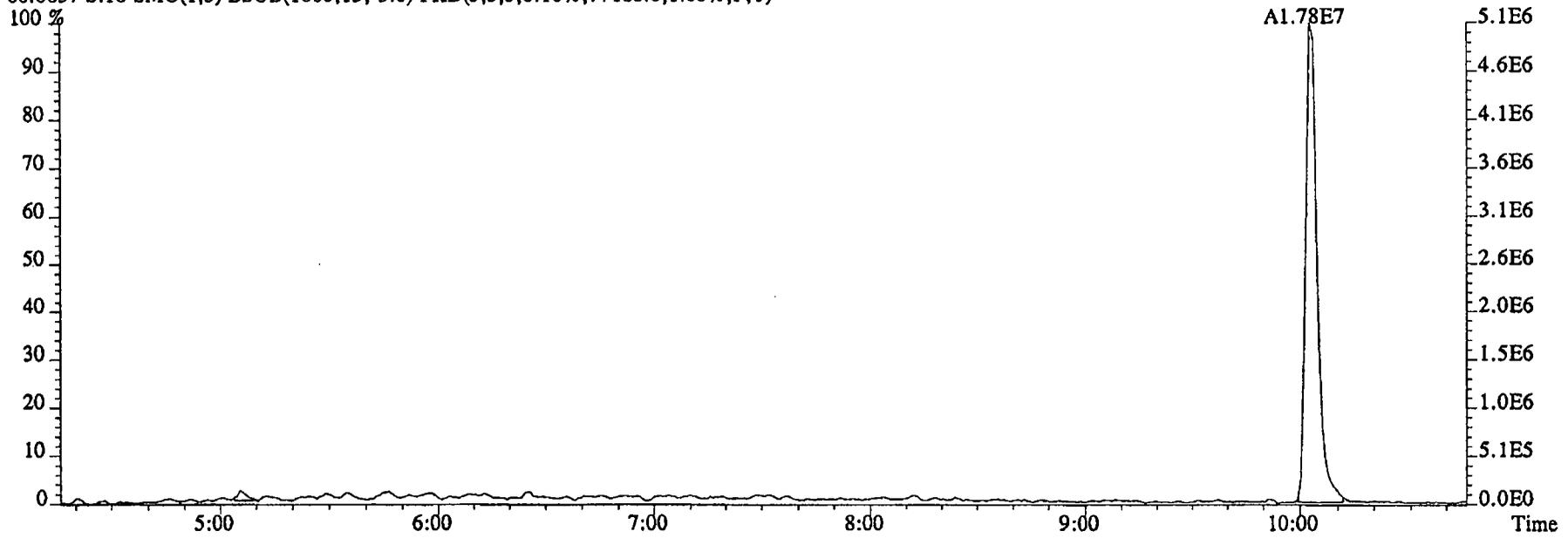
79.0253 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,105836.0,1.00%,F,T)



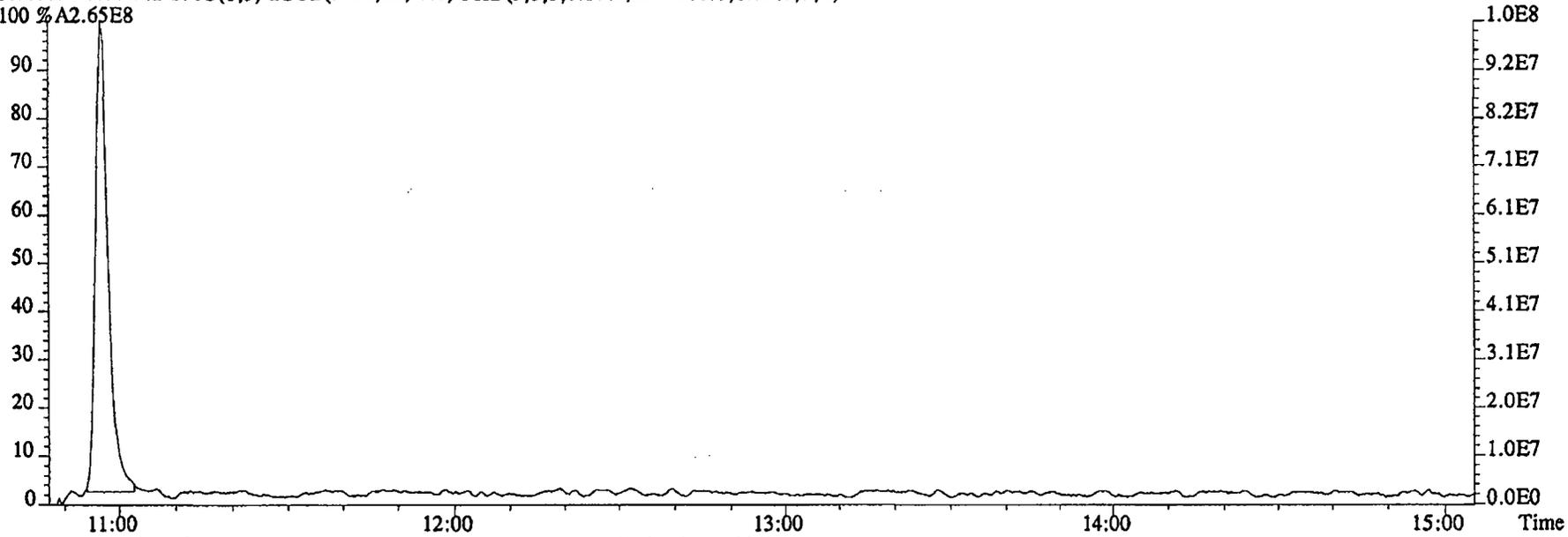
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 03:46:57 GC EI+ Voltage SIR 70SE  
Sample#18 Text:GX6EX-1-AC :G4L020335-1 Exp:NDMAVOA  
74.0480 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24580.0,1.00%,F,T)



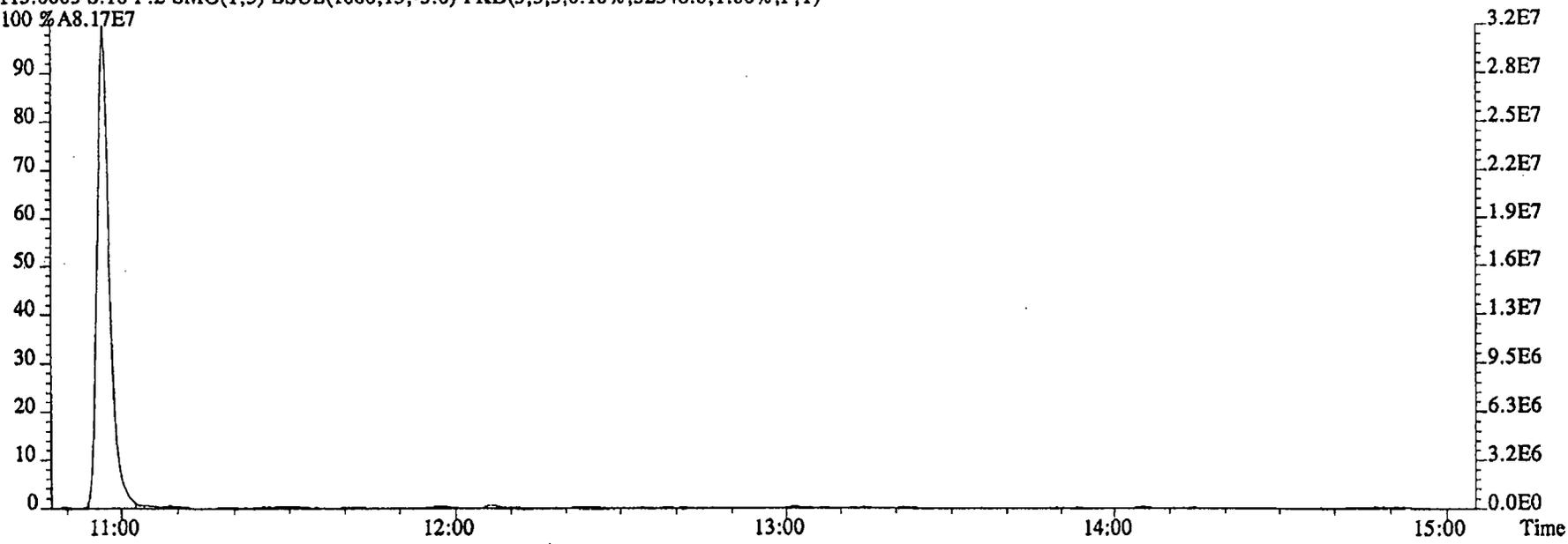
80.0857 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,77188.0,1.00%,F,T)



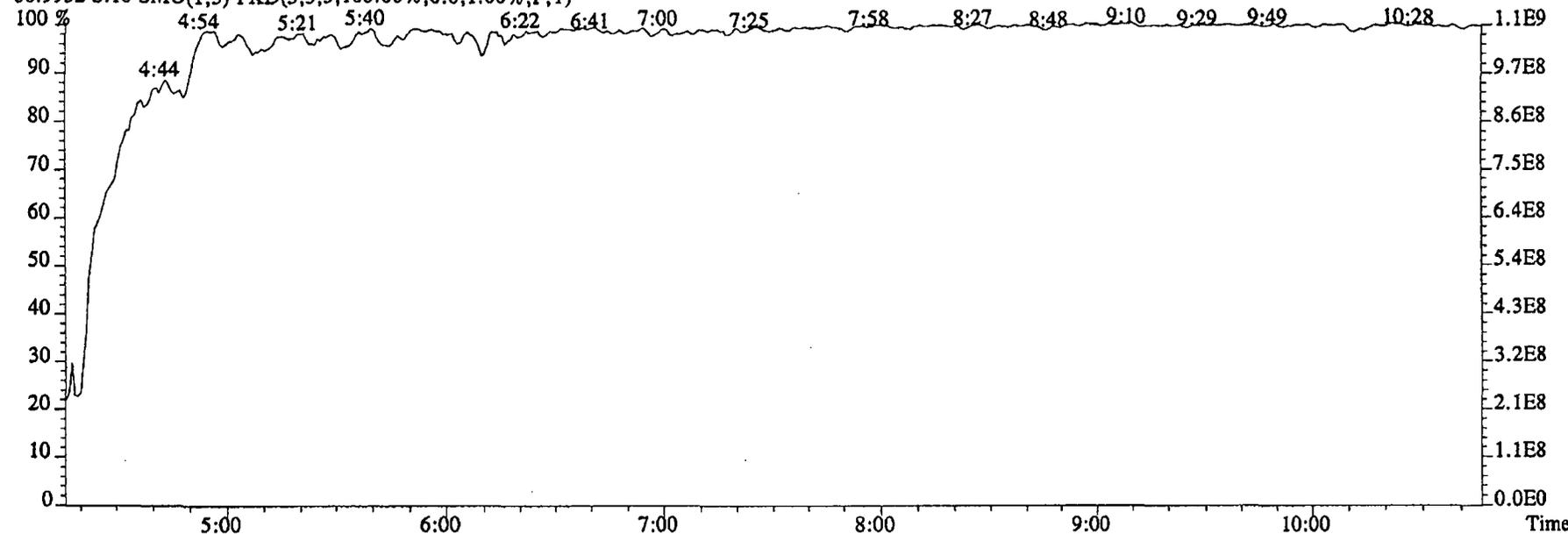
File:03DE04B5SP #1-601 Acq: 4-DEC-2004 03:46:57 GC EI+ Voltage SIR 70SE  
Sample#18 Text:GX6EX-1-AC :G4L020335-1 Exp:NDMAVOA  
113.0032 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2994160.0,1.00%,F,T)  
100 % A2.65E8



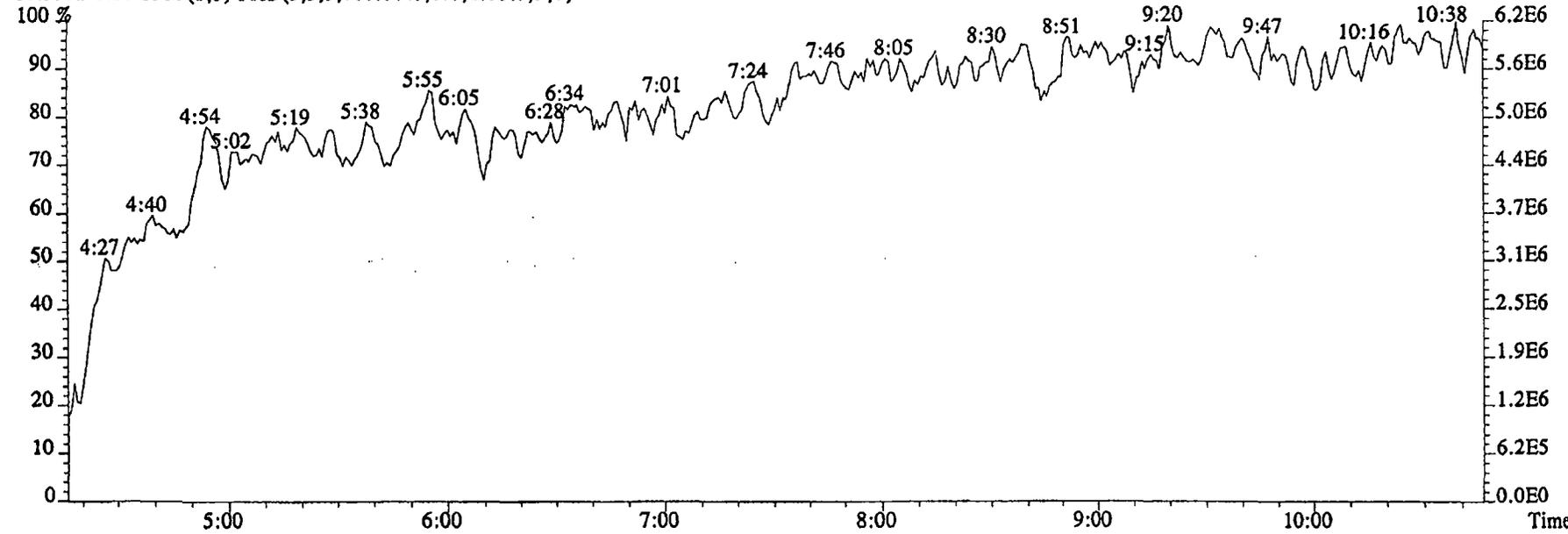
115.0003 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52348.0,1.00%,F,T)  
100 % A8.17E7



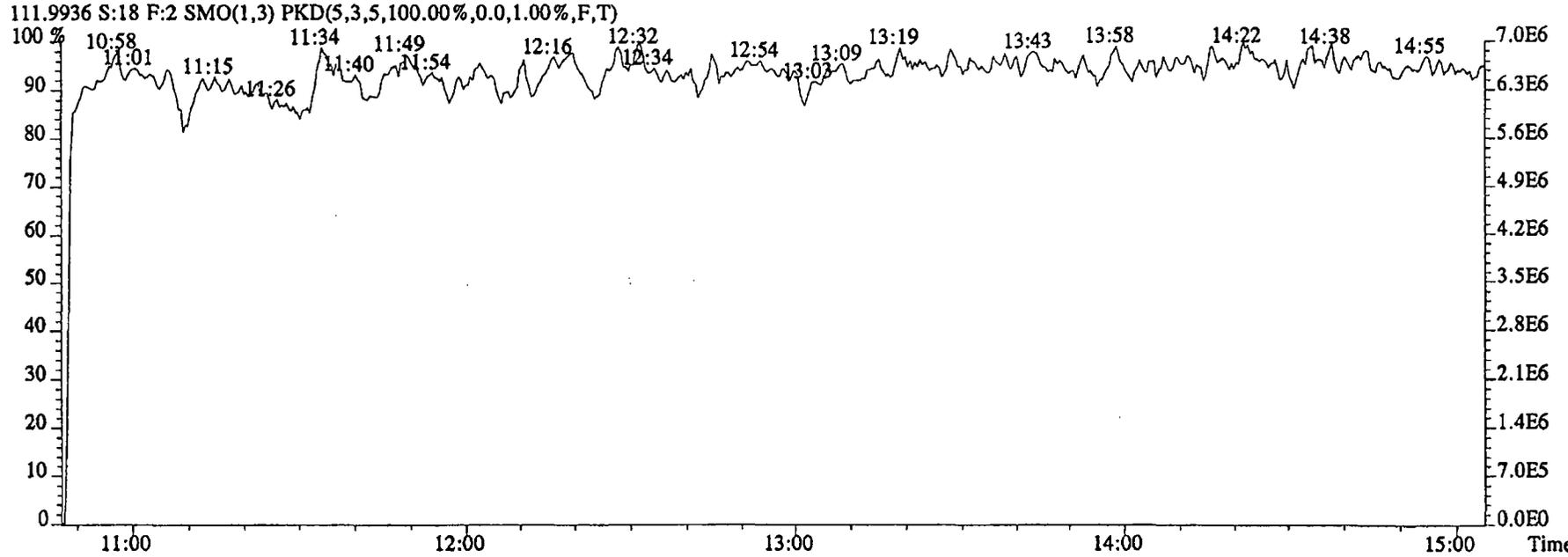
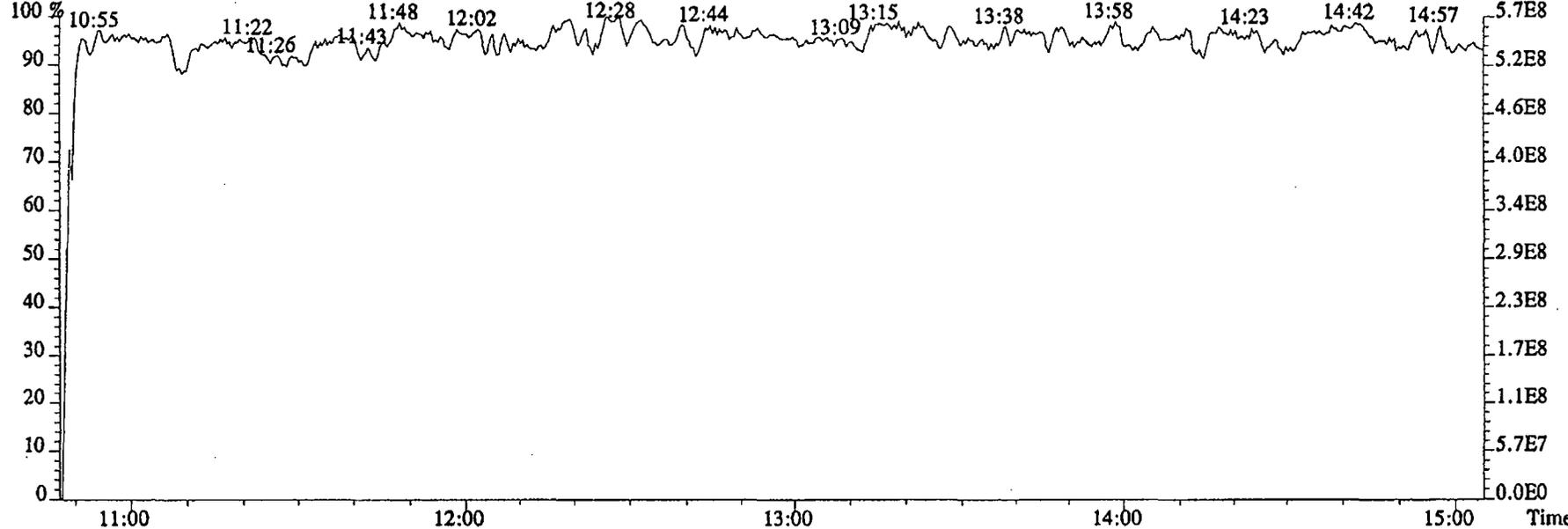
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 03:46:57 GC EI+ Voltage SIR 70SE  
Sample#18 Text:GX6EX-1-AC :G4L020335-1 Exp:NDMAVOA  
68.9952 S:18 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



80.9952 S:18 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-601 Acq: 4-DEC-2004 03:46:57 GC EI+ Voltage SIR 70SE  
Sample#18 Text:GX6EX-1-AC :G4L020335-1 Exp:NDMAVOA  
118.9920 S:18 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

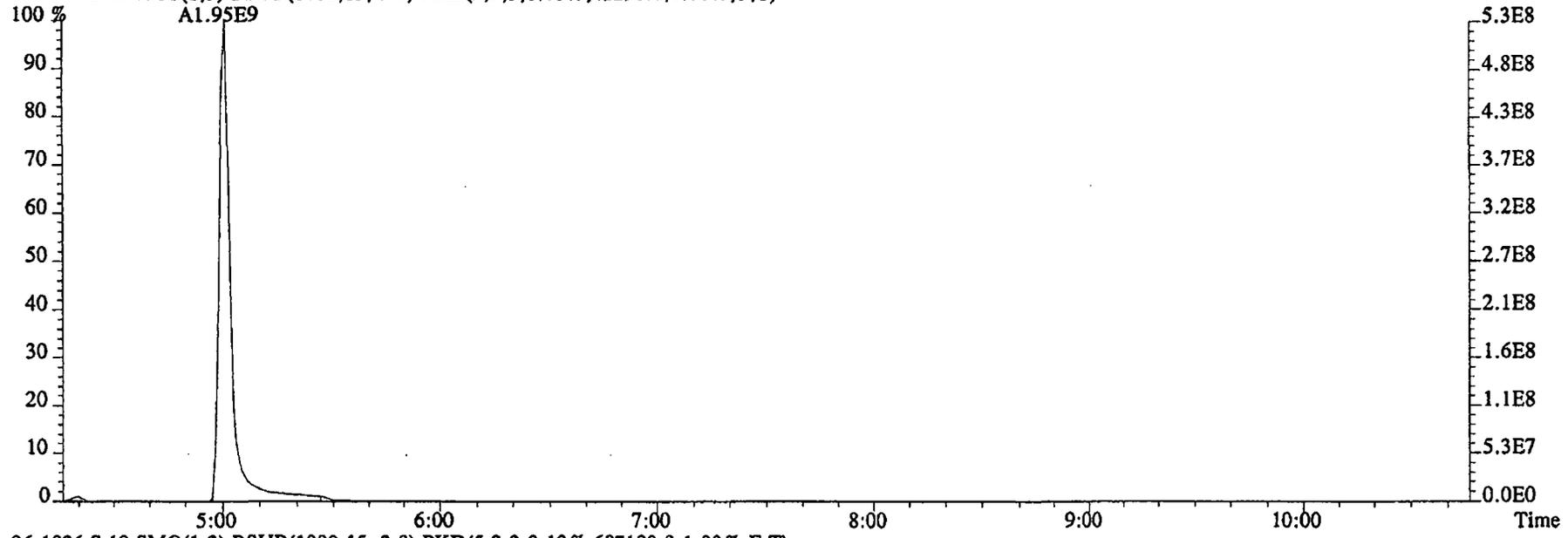


Run text: GX6FF-1-AC      Sample text: GX6FF-1-AC :G4L020335-2  
 Run #17 Filename: 03DE04B5SP S: 19 I: 1      Results: 03DE045SP1625  
 Acquired: 4-DEC-04      04:07:19      Processed: 6-DEC-04      13:29:37  
 Run: 03DE04B5SP      Analyte: 1625      Cal: 16251203045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.980 L

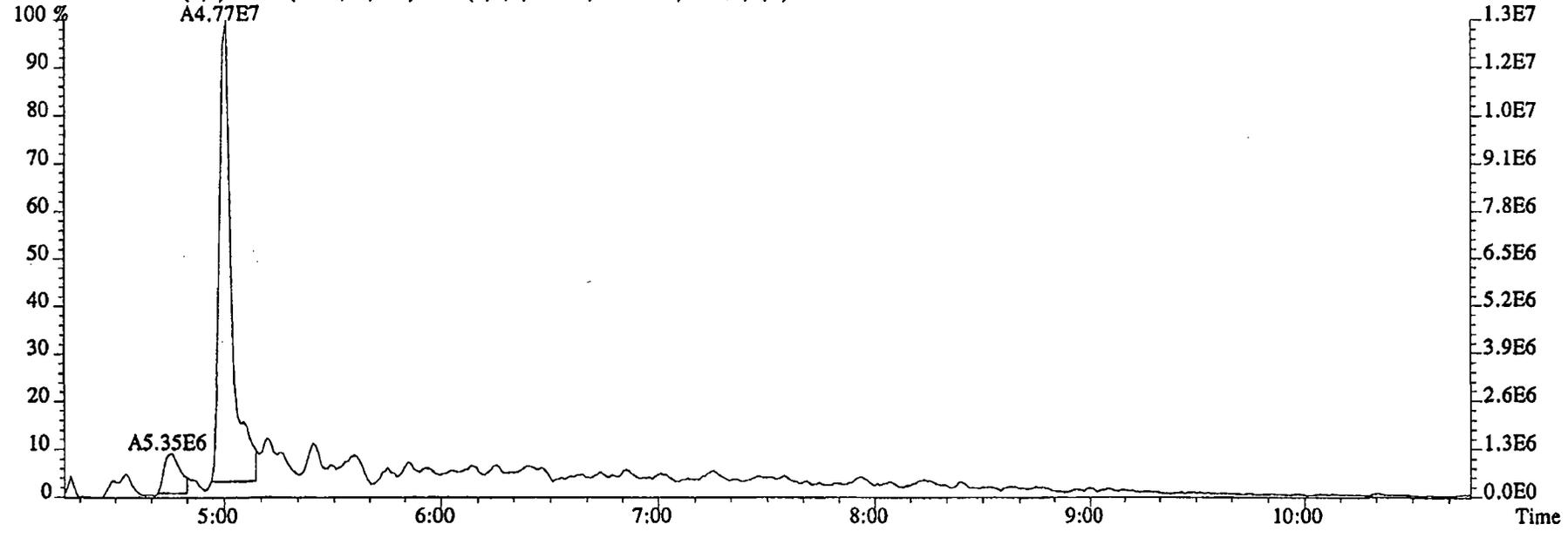
Name	Resp	RA	RT	RRF	Conc	<i>cc</i>	EDL	Rec	M
2-Chloropyridine	71352000		10:57	-	242.27		-	-	n
D8-1,4-Dioxane	47664800		5:01	0.99	138.10		15.96	13.5	n
1,4-Dioxane	1953540000		5:01	1.59	26253.55		6.49	-	n
D5-123-TriChloroPropane	96798200		9:53	4.02	68.82		0.25	67.4	n
1,2,3-TriChloroPropane	*		NotFnd	0.39	*	<i>cc</i>	0.69	-	n
1,2,3-TriChloroPropane	401108		9:56	-	0.30		-	-	n
D6-NDMA	18102000		10:03	2.49	20.81		0.39	20.4	n
NDMA	*		NotFnd	1.10	*	<i>cc</i>	1.29	-	n
2-Chloropyridine	226439000		10:57	-	240.62		-	-	n

*12-13-04*  
*cc*

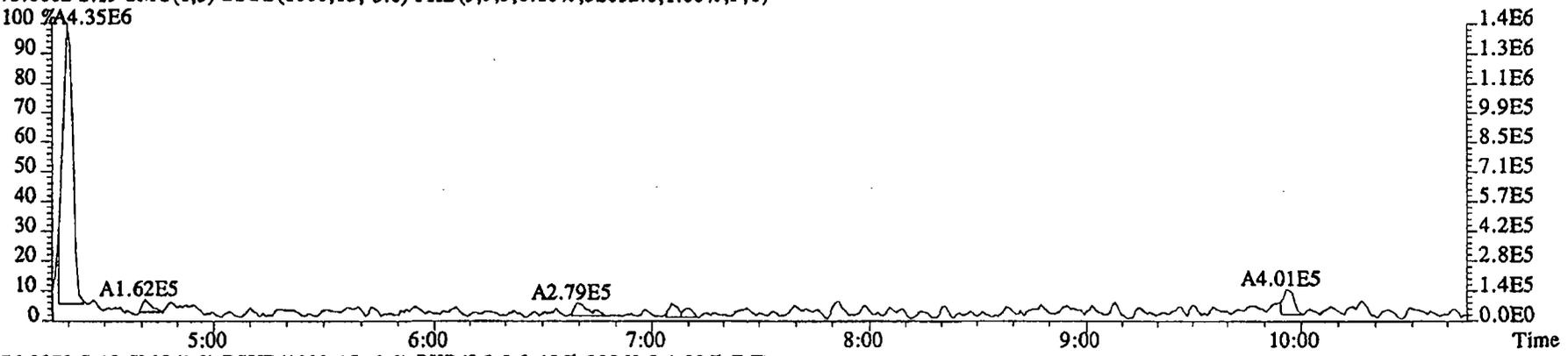
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:07:19 GC EI+ Voltage SIR 70SE  
Sample#19 Text:GX6FF-1-AC :G4L020335-2 Exp:NDMAVOA  
88.0524 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,42296.0,1.00%,F,T)



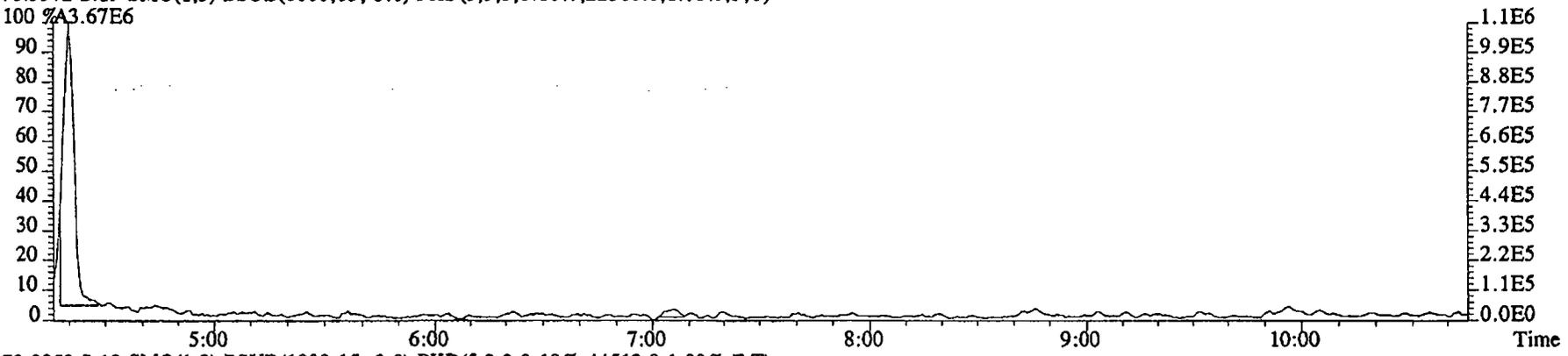
96.1026 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,687180.0,1.00%,F,T)



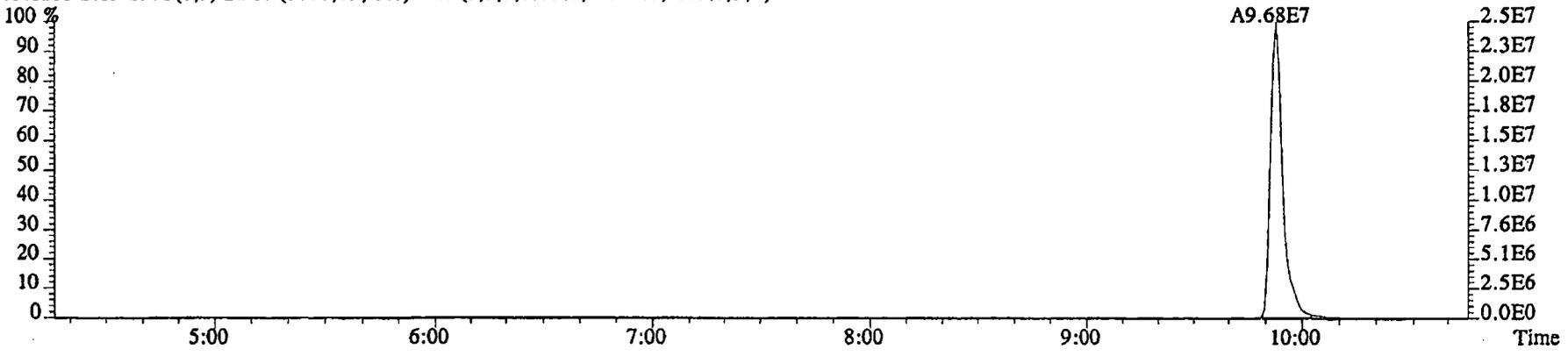
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:07:19 GC EI+ Voltage SIR 70SE  
Sample#19 Text:GX6FF-1-AC :G4L020335-2 Exp:NDMAVOA  
75.0002 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,52032.0,1.00%,F,T)  
100 %A4.35E6



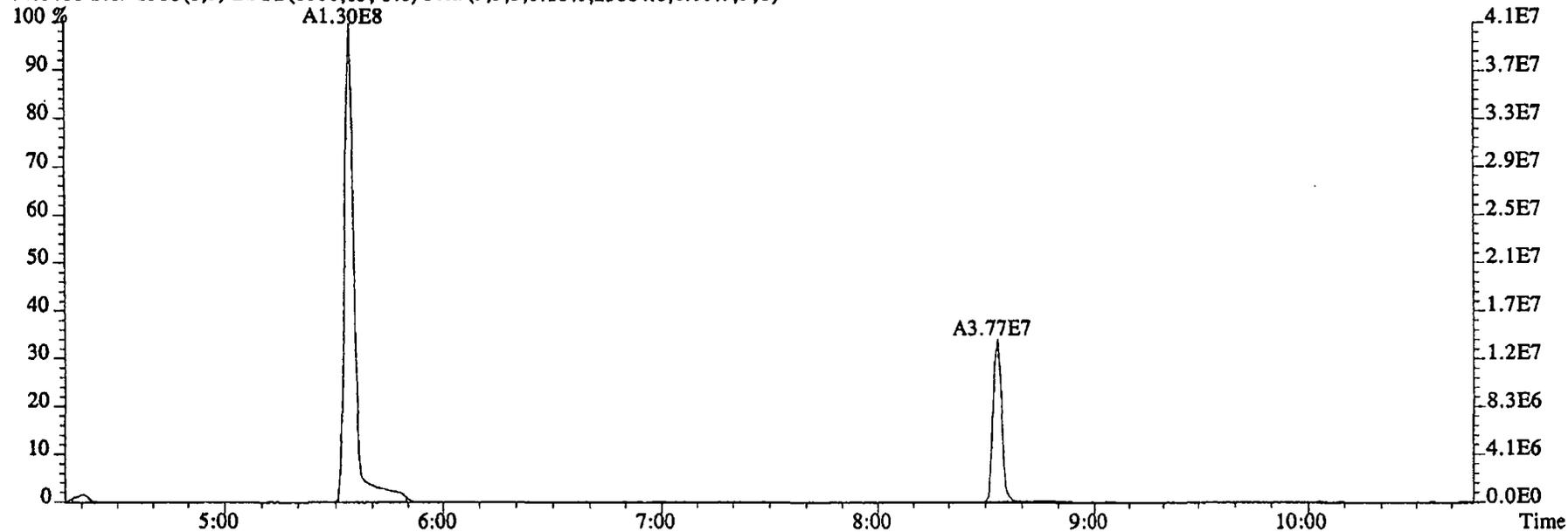
76.9972 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22360.0,1.00%,F,T)  
100 %A3.67E6



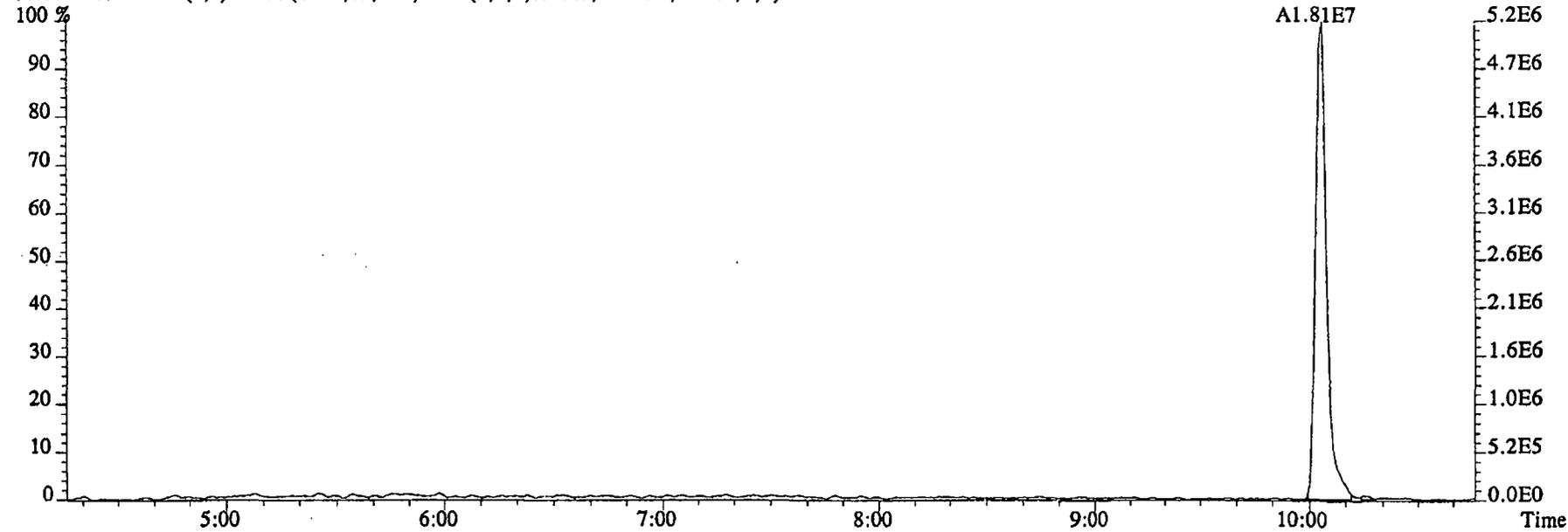
79.0253 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44512.0,1.00%,F,T)  
100 %



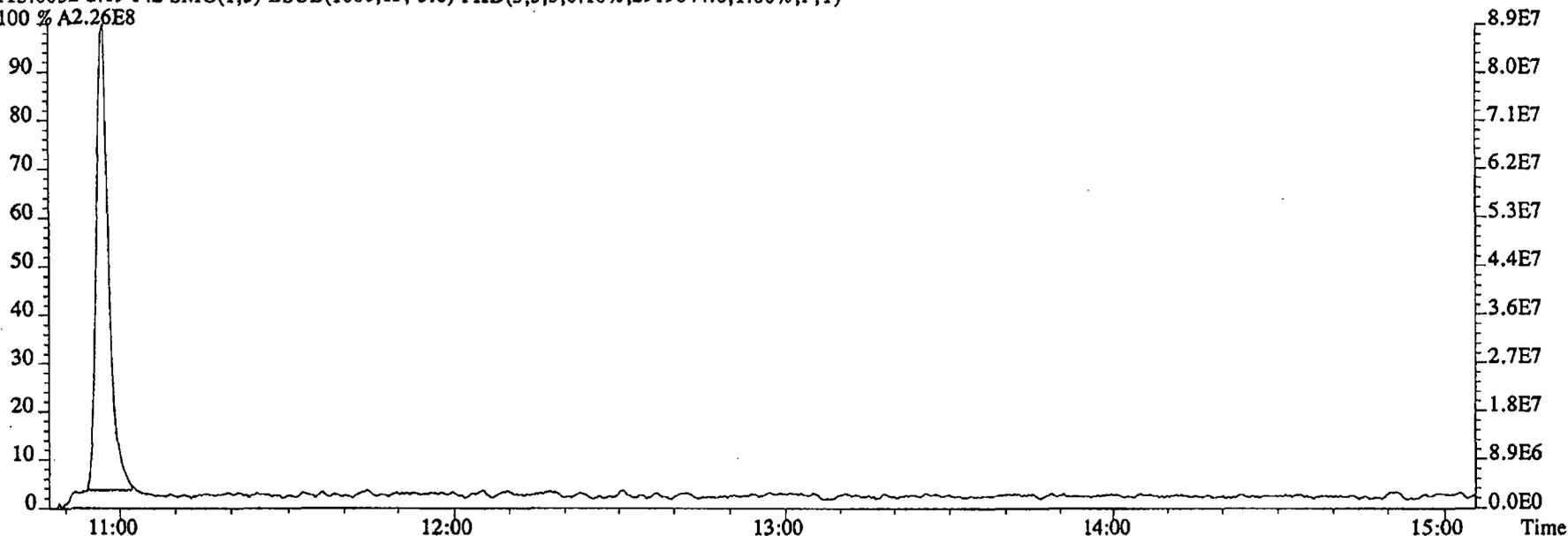
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:07:19 GC EI+ Voltage SIR 70SE  
Sample#19 Text:GX6FF-1-AC :G4L020335-2 Exp:NDMAVOA  
74.0480 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23884.0,1.00%,F,T)



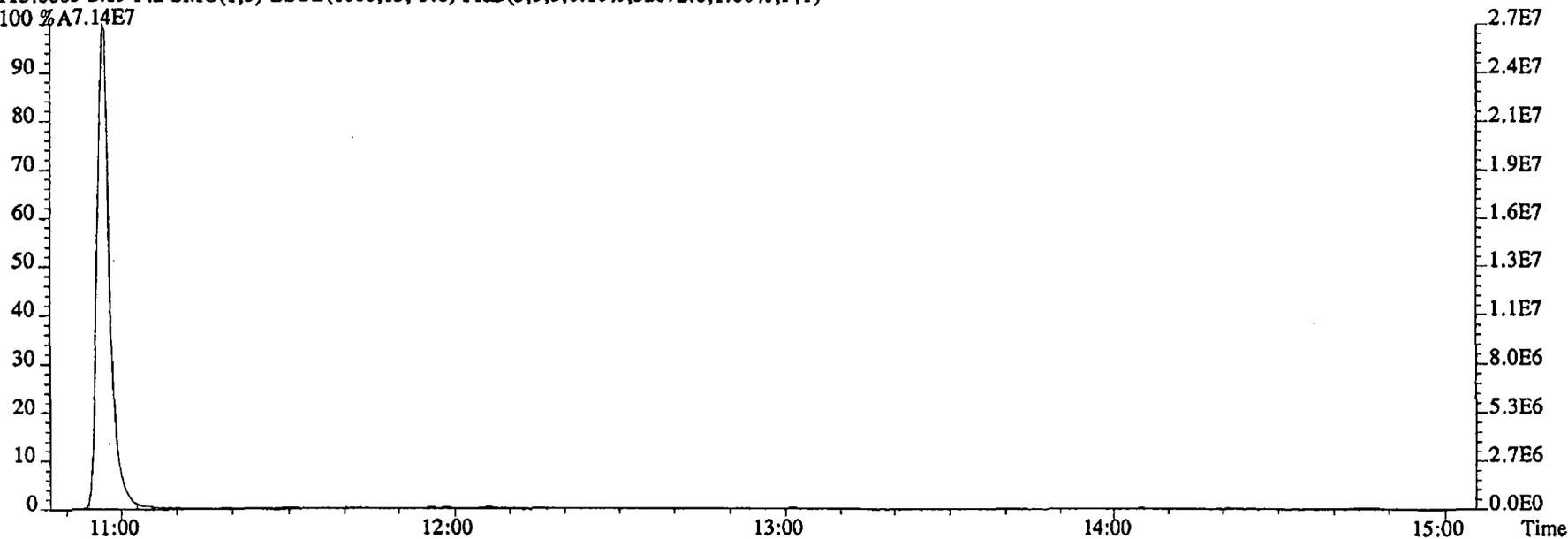
80.0857 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,42632.0,1.00%,F,T)



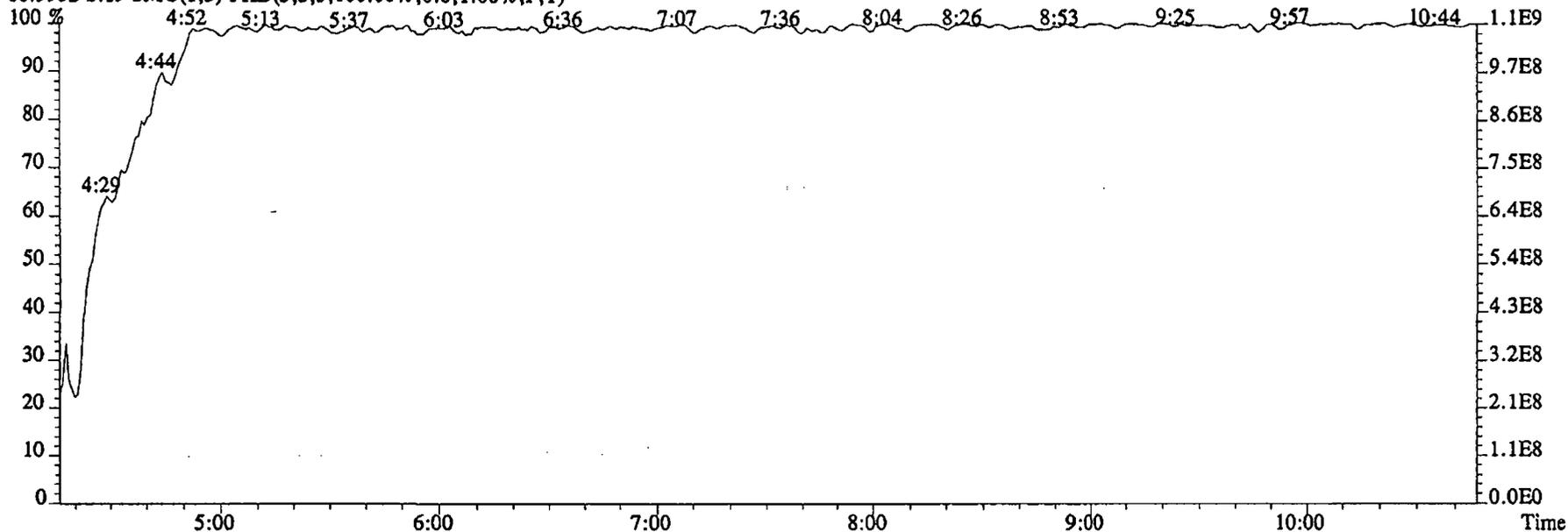
File:03DE04B5SP #1-602 Acq: 4-DEC-2004 04:07:19 GC EI+ Voltage SIR 70SE  
Sample#19 Text:GX6FF-1-AC :G4L020335-2 Exp:NDMAVOA  
113.0032 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2919644.0,1.00%,F,T)  
100 % A2.26E8



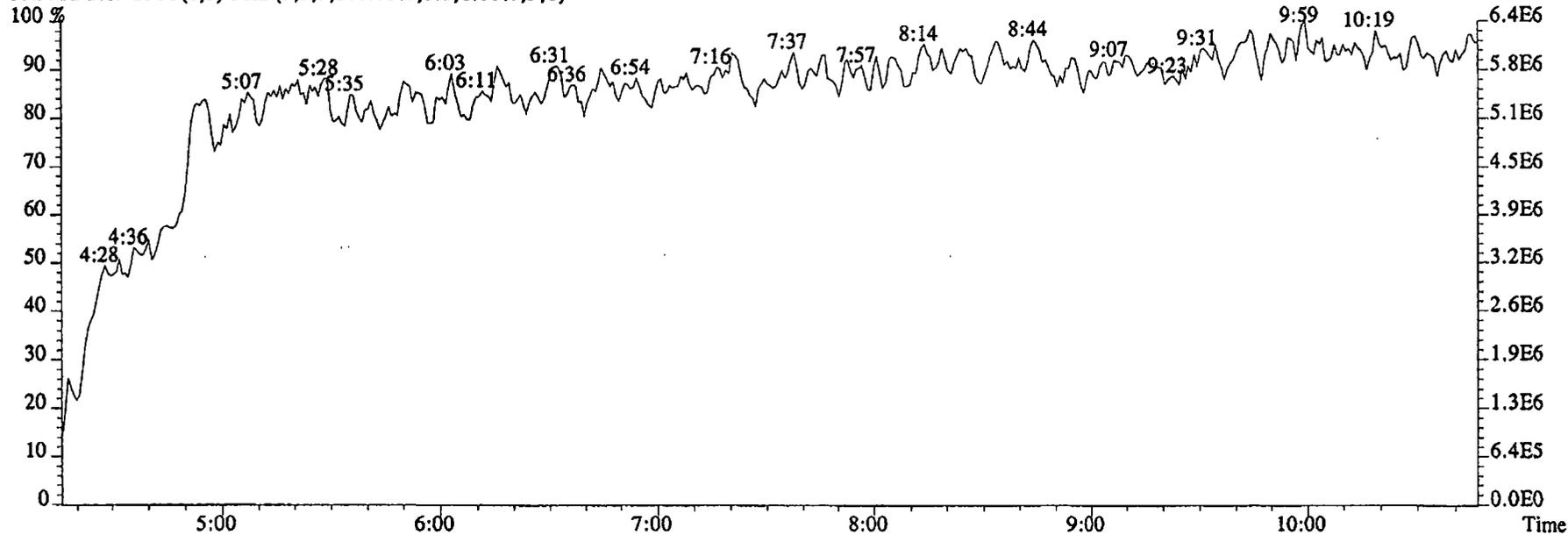
115.0003 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32072.0,1.00%,F,T)  
100 % A7.14E7



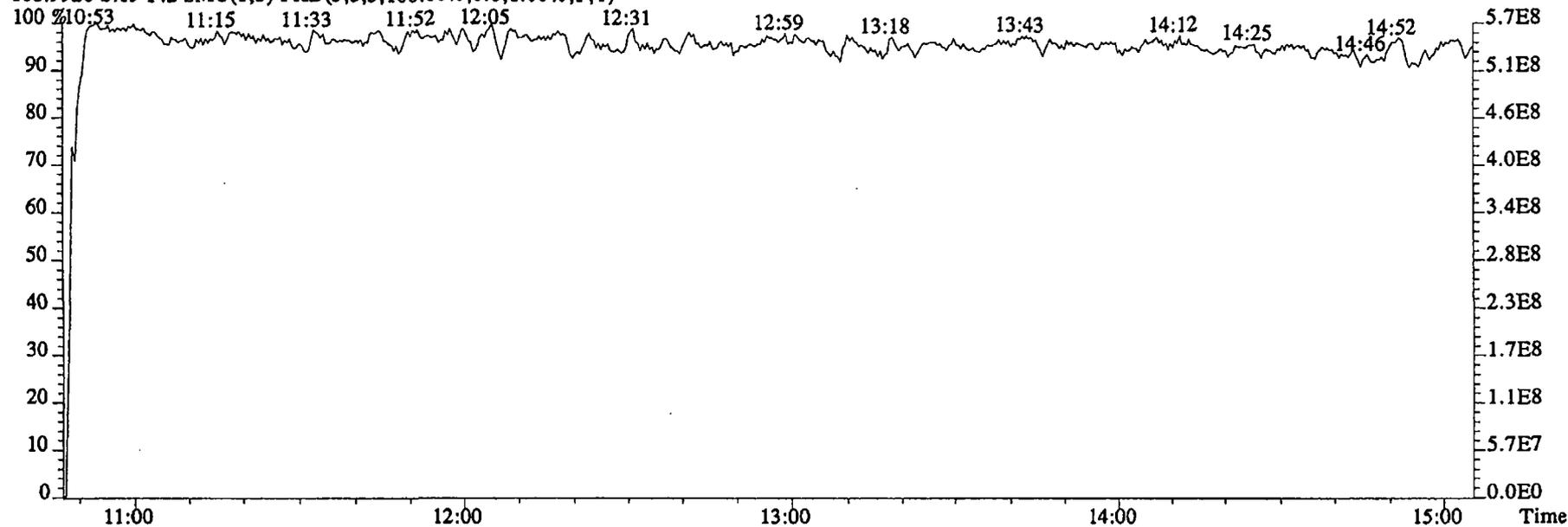
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:07:19 GC EI+ Voltage SIR 70SE  
Sample#19 Text:GX6FF-1-AC :G4L020335-2 Exp:NDMAVOA  
68.9952 S:19 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



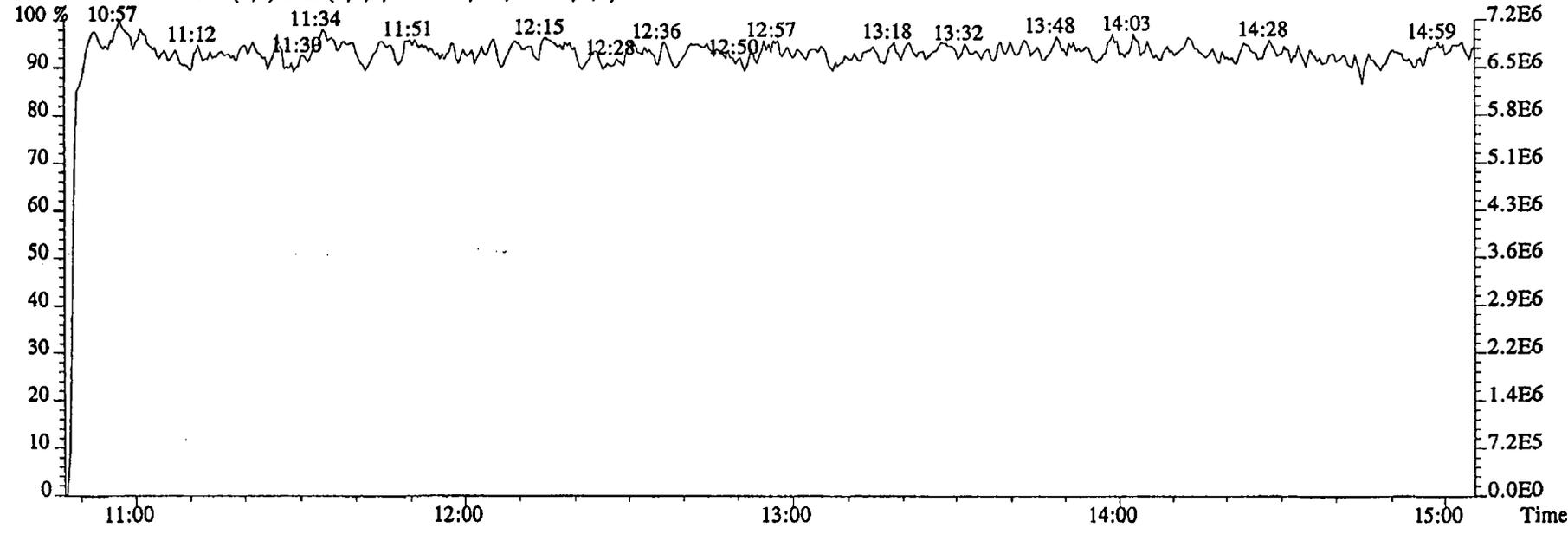
80.9952 S:19 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-602 Acq: 4-DEC-2004 04:07:19 GC EI+ Voltage SIR 70SE  
Sample#19 Text:GX6FF-1-AC :G4L020335-2 Exp:NDMAVOA  
118.9920 S:19 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:19 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

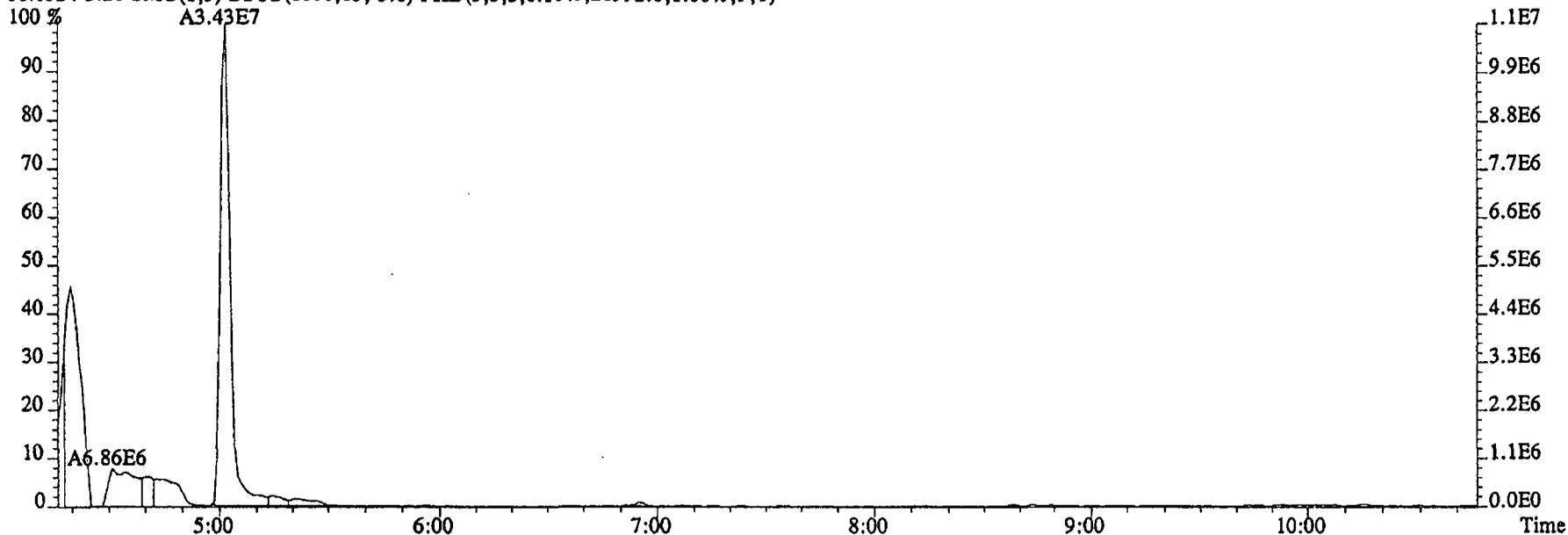


Run text: GX6FQ-1-AA      Sample text: GX6FQ-1-AA :G4L020335-3  
 Run #18 Filename: 03DE04B5SP S: 20 I: 1      Results: 03DE045SP1625  
 Acquired: 4-DEC-04      04:27:40      Processed: 6-DEC-04      13:29:37  
 Run: 03DE04B5SP      Analyte: 1625      Cal: 16251203045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.987 L

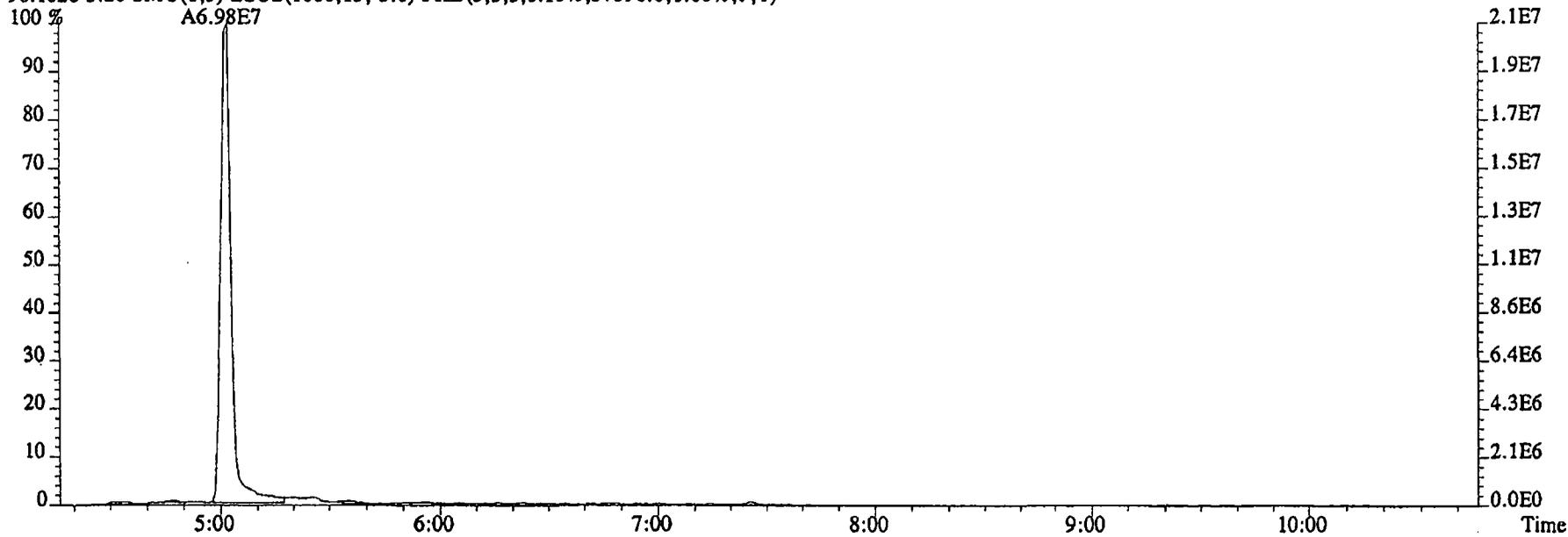
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	98129700		10:57	-	330.83	-	-	n
D8-1,4-Dioxane	69849400		5:02	0.99	146.11	0.96	14.4	n
1,4-Dioxane	34322400		5:02	1.59	312.53	1.97	-	n
D5-123-TriChloroPropane	115415000		9:52	4.02	59.24	0.06	58.5	n
1,2,3-TriChloroPropane	*		NotFnd	0.39	*	0.50	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	21283900		10:03	2.49	17.67	0.06	17.4	n
NDMA	946261		10:03	1.10	4.09	2.06	-	n
2-Chloropyridine	314295000		10:57	-	331.61	-	-	n

12-18-09

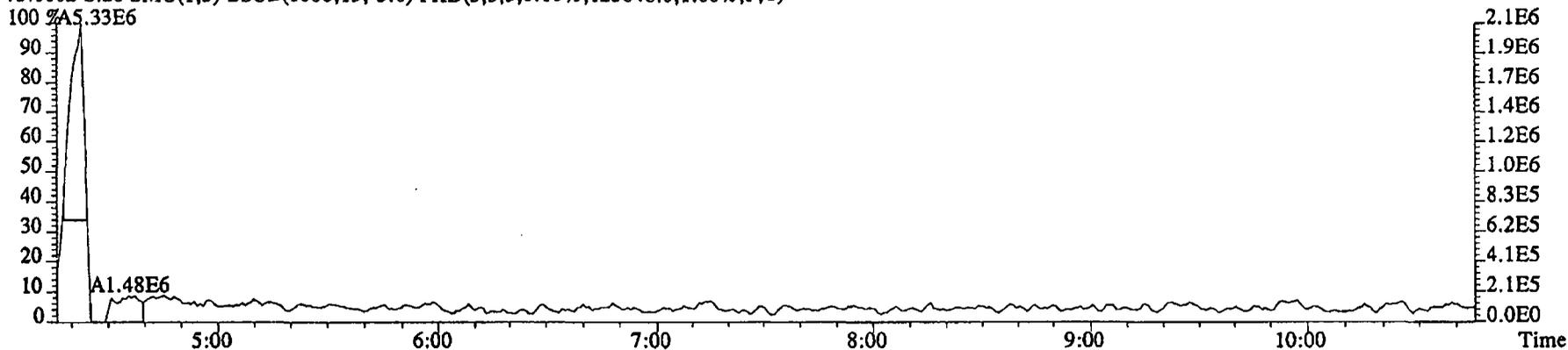
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 04:27:40 GC EI+ Voltage SIR 70SE  
Sample#20 Text:GX6FQ-1-AA :G4L020335-3 Exp:NDMAVOA  
88.0524 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21992.0,1.00%,F,T)



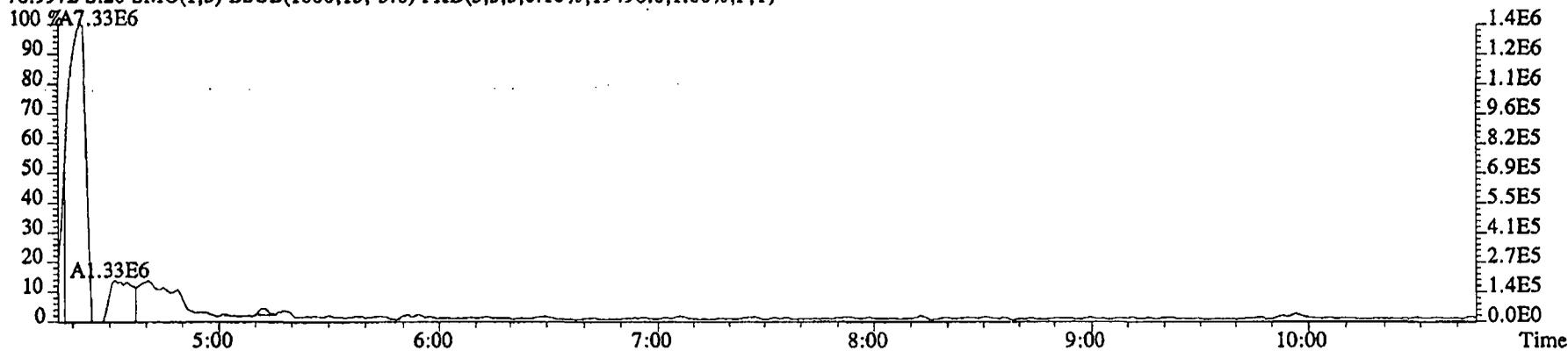
96.1026 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,57396.0,1.00%,F,T)



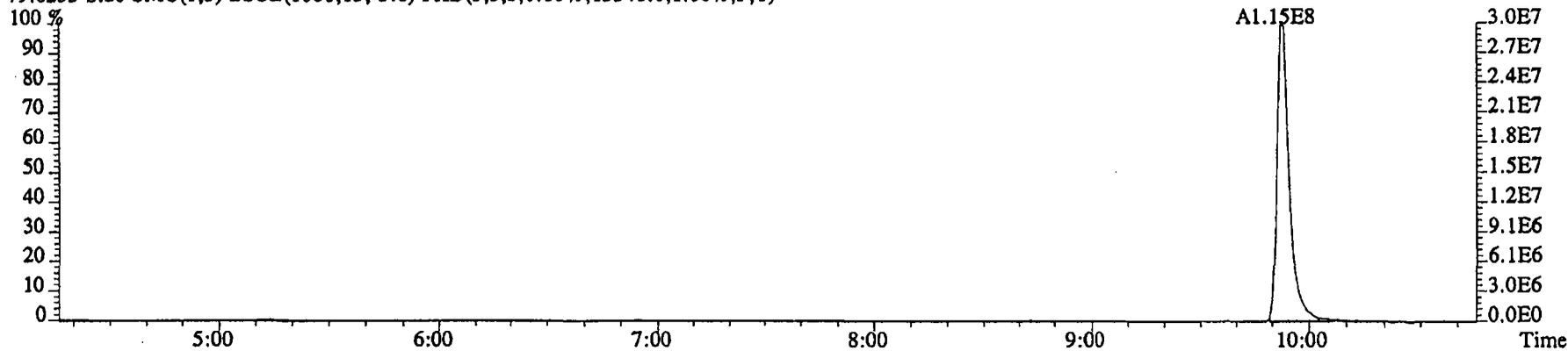
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 04:27:40 GC EI+ Voltage SIR 70SE  
Sample#20 Text:GX6FQ-1-AA :G4L020335-3 Exp:NDMAVOA  
75.0002 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,123648.0,1.00%,F,T)



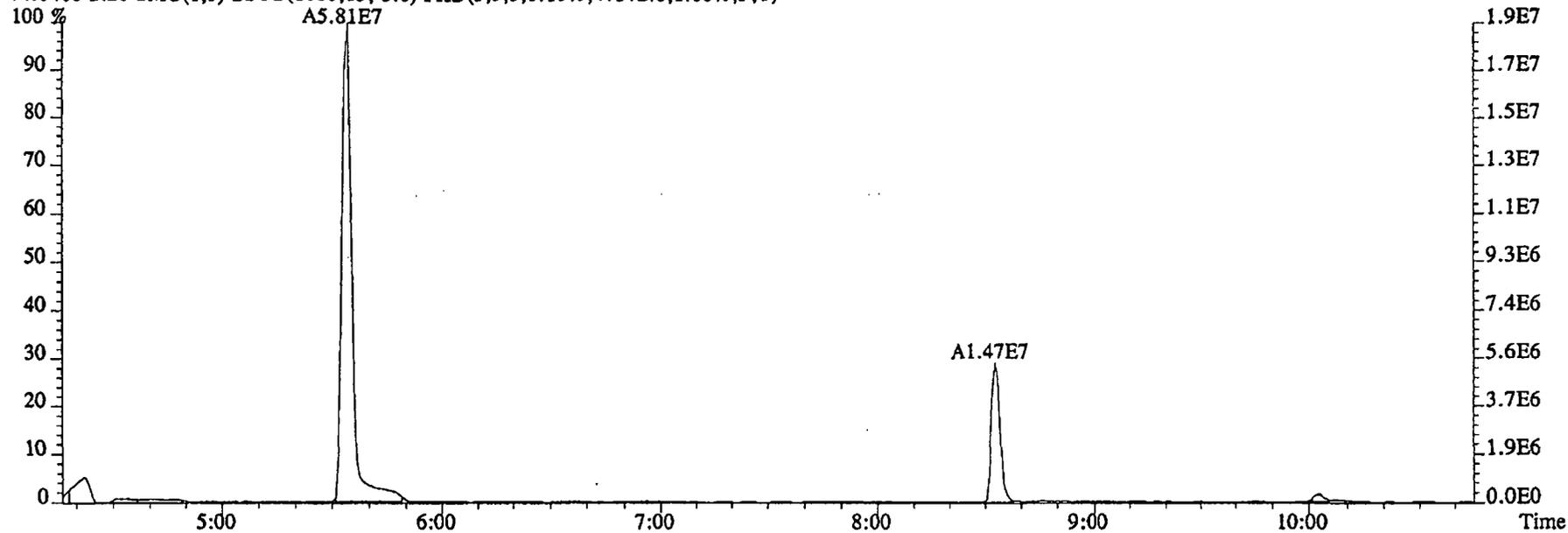
76.9972 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19496.0,1.00%,F,T)



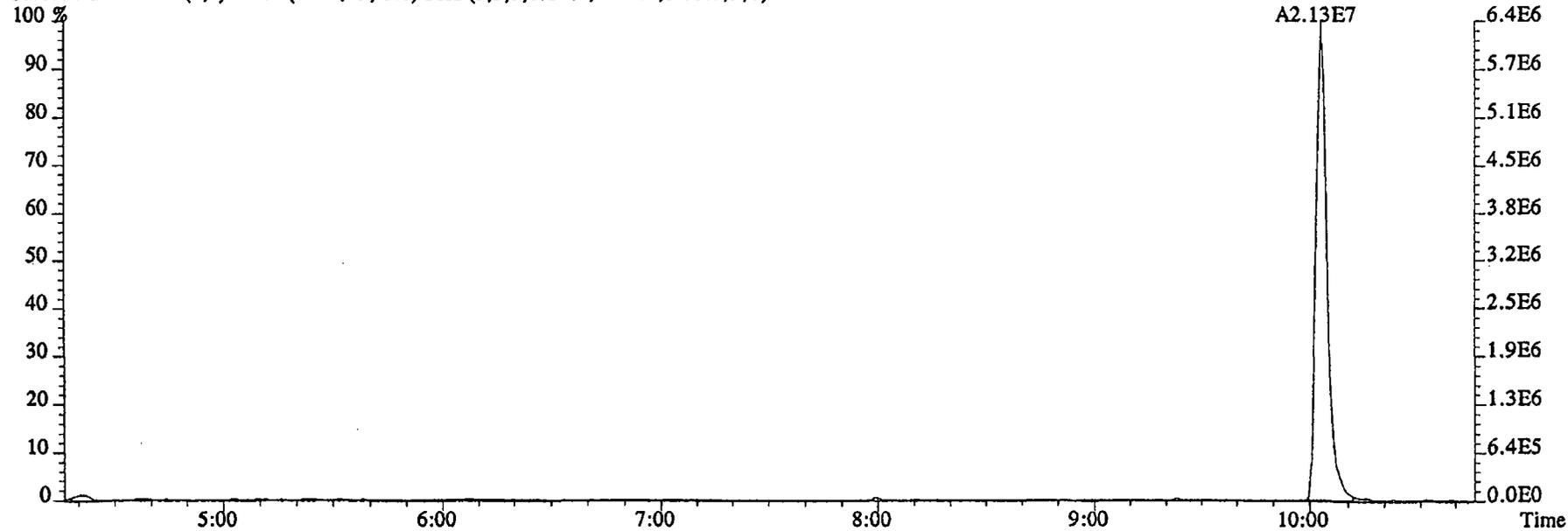
79.0253 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15340.0,1.00%,F,T)



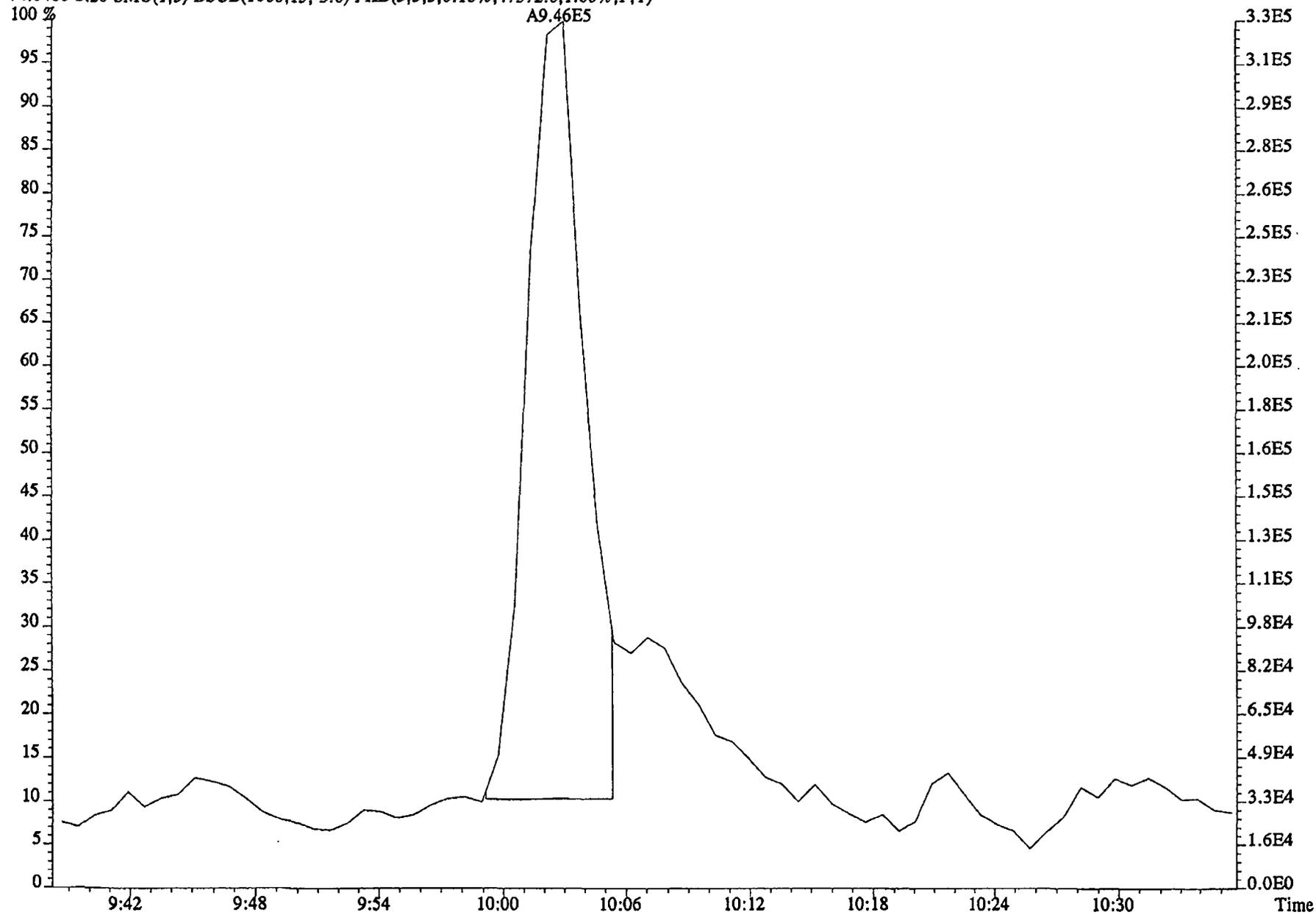
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 04:27:40 GC EI+ Voltage SIR 70SE  
Sample#20 Text:GX6FQ-1-AA :G4L020335-3 Exp:NDMAVOA  
74.0480 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,47572.0,1.00%,F,T)



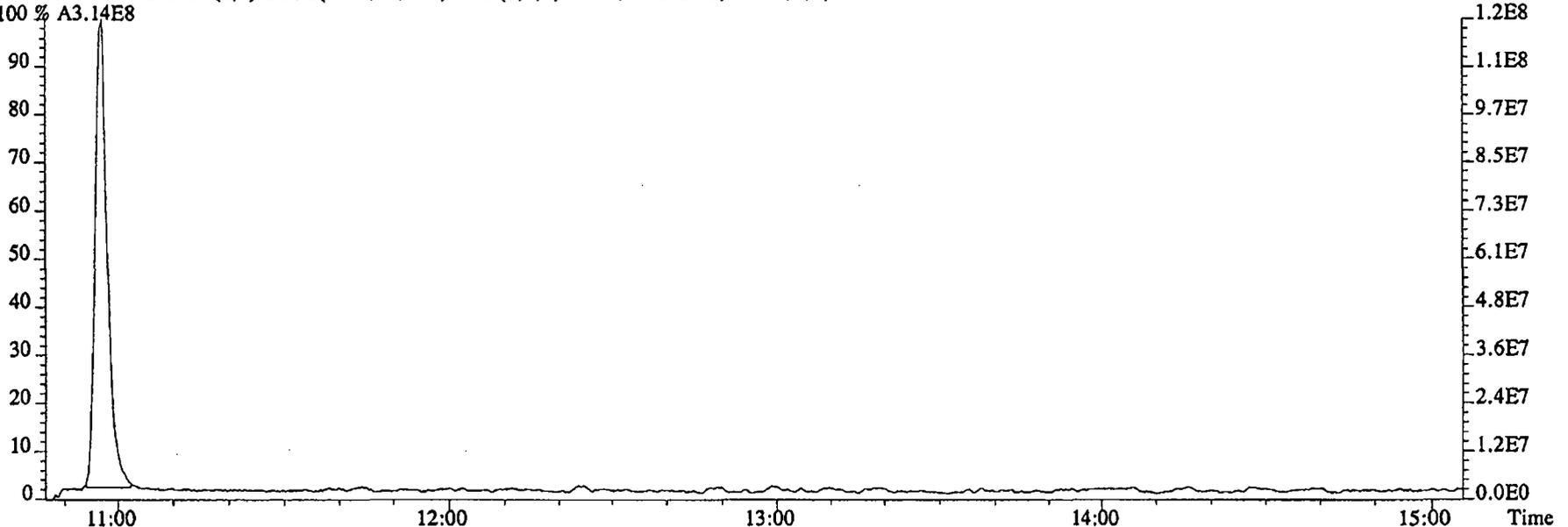
80.0857 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8540.0,1.00%,F,T)



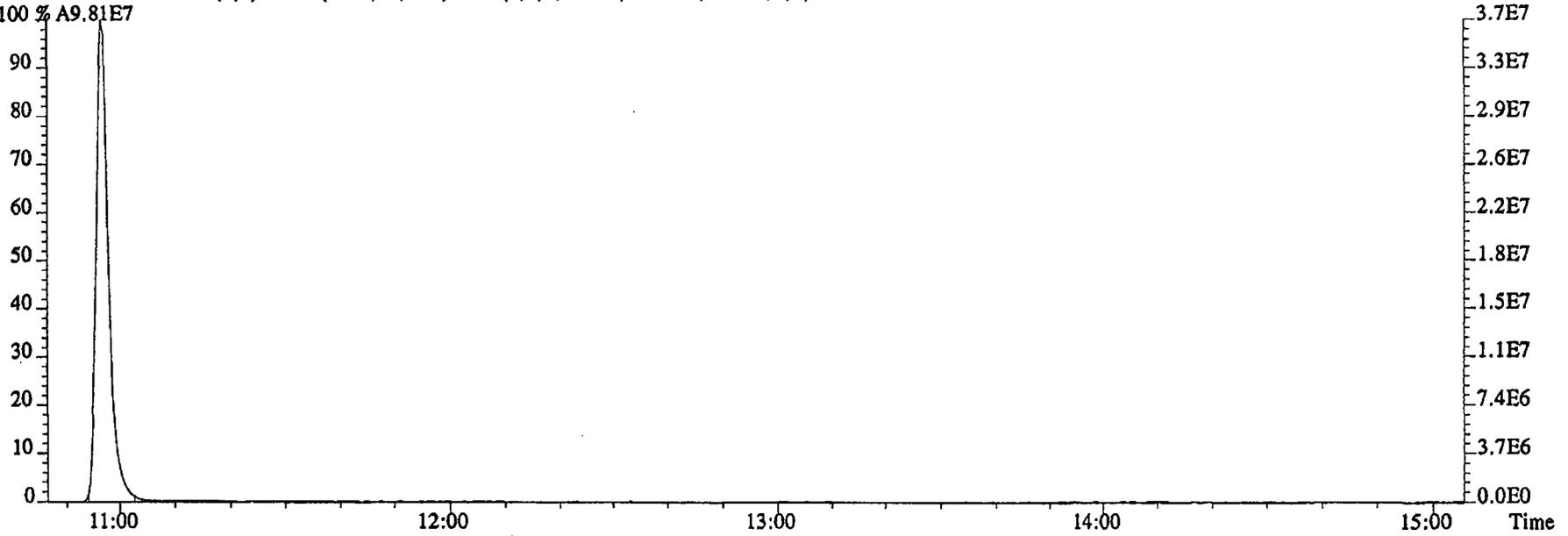
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 04:27:40 GC EI+ Voltage SIR 70SE  
Sample#20 Text:GX6FQ-1-AA :G4L020335-3 Exp:NDMAVOA  
74.0480 S:20 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,47572.0,1.00%,F,T)



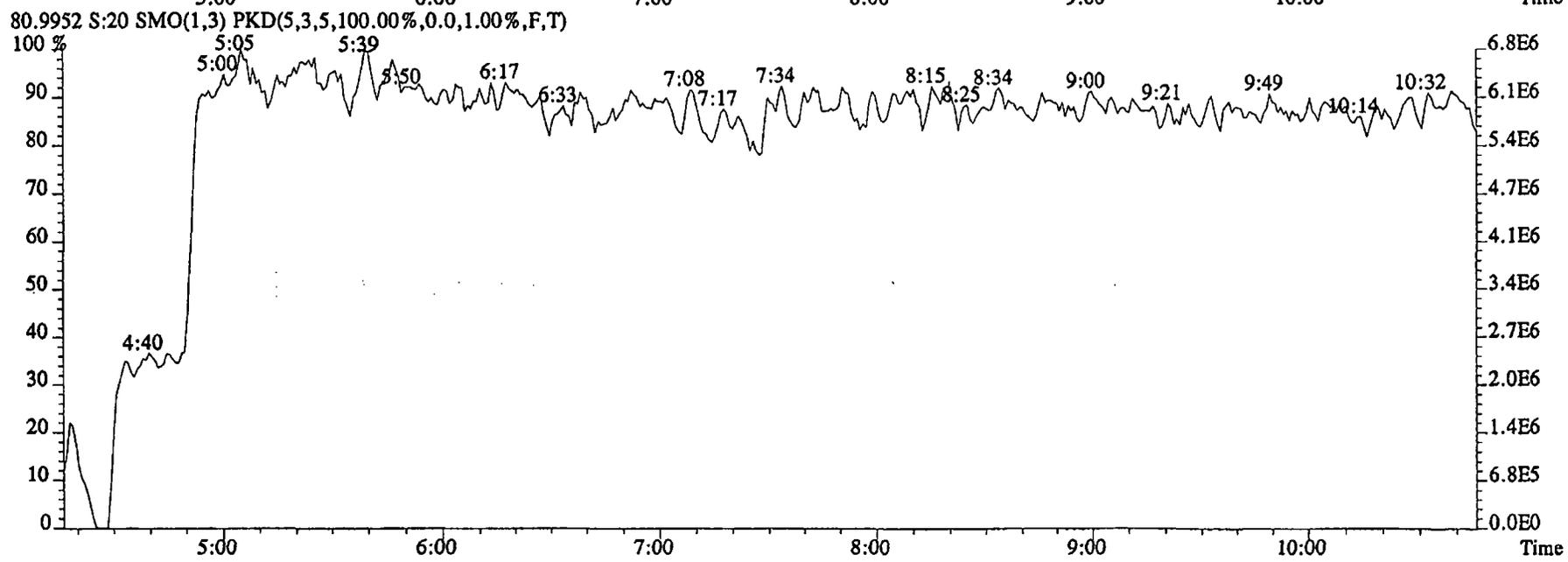
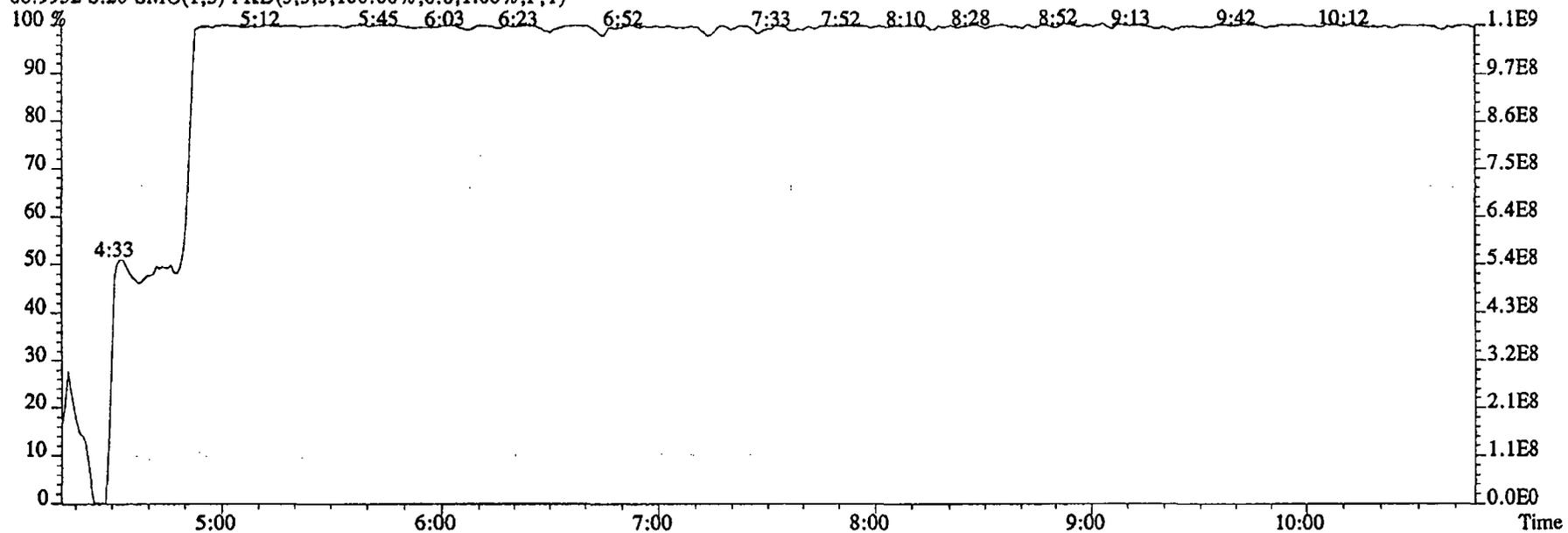
File:03DE04B5SP #1-603 Acq: 4-DEC-2004 04:27:40 GC EI+ Voltage SIR 70SE  
Sample#20 Text:GX6FQ-1-AA :G4L020335-3 Exp:NDMAVOA  
113.0032 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2961024.0,1.00%,F,T)  
100 % A3.14E8



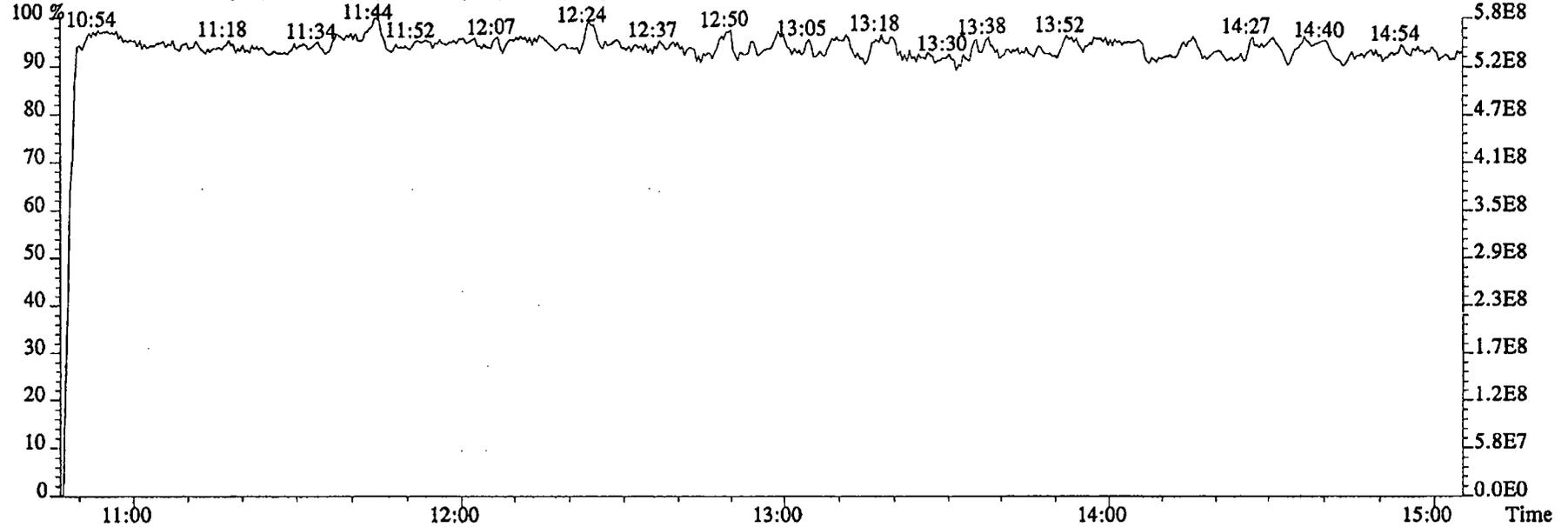
115.0003 S:20 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26572.0,1.00%,F,T)  
100 % A9.81E7



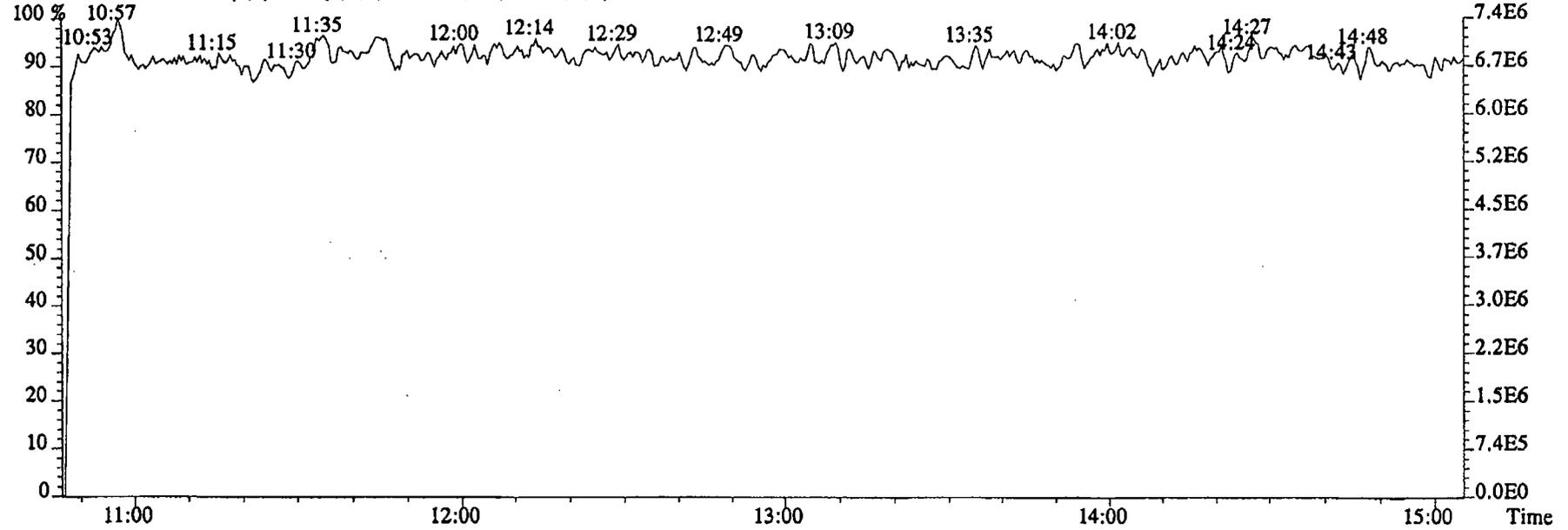
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 04:27:40 GC EI+ Voltage SIR 70SE  
Sample#20 Text:GX6FQ-1-AA :G4L020335-3 Exp:NDMAVOA  
68.9952 S:20 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-603 Acq: 4-DEC-2004 04:27:40 GC EI+ Voltage SIR 70SE  
Sample#20 Text:GX6FQ-1-AA :G4L020335-3 Exp:NDMAVOA  
118.9920 S:20 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:20 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Run text: GX6F1-1-AC      Sample text: GX6F1-1-AC :G4L020335-4  
 Run #19 Filename: 03DE04B5SP S: 21 I: 1      Results: 03DE045SP1625  
 Acquired: 4-DEC-04      04:48:02      Processed: 6-DEC-04      13:29:37  
 Run: 03DE04B5SP      Analyte: 1625      Cal: 16251203045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.971 L

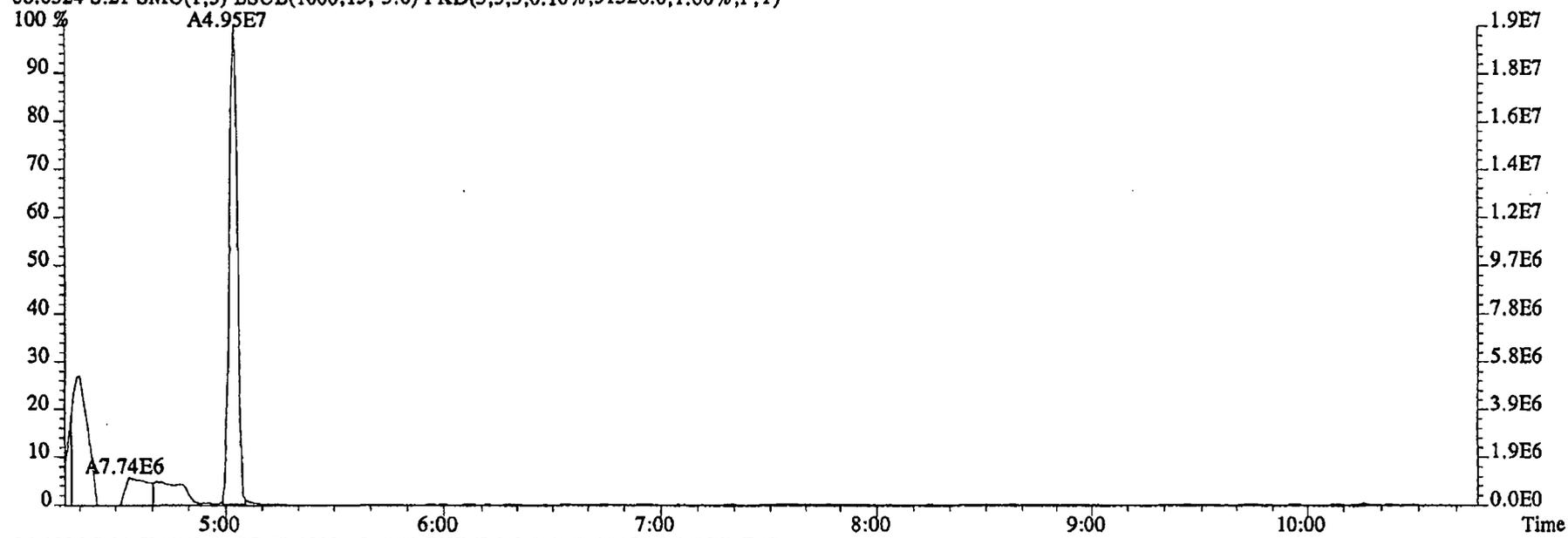
Name	Resp	RA	RT	RRF	Conc	<i>u</i>	EDL	Rec	M
2-Chloropyridine	105463000		10:57	-	361.41		-	-	n
D8-1,4-Dioxane	43864400		5:01	0.99	86.78		0.79	8.4	n
1,4-Dioxane	49477200		5:02	1.59	729.23		3.87	-	n
D5-123-TriChloroPropane	119361000		9:53	4.02	57.95		0.18	56.3	n
1,2,3-TriChloroPropane	*		NotFnd	0.39	*	<i>&lt;5.0</i>	0.91	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*		-	-	n
D6-NDMA	21436800		10:03	2.49	16.83		0.19	16.3	n
NDMA	152403		10:03	1.10	0.66	<i>&lt;2.0</i>	<del>3-170.20</del>	-	y
2-Chloropyridine	338568000		10:57	-	363.11		-	-	n

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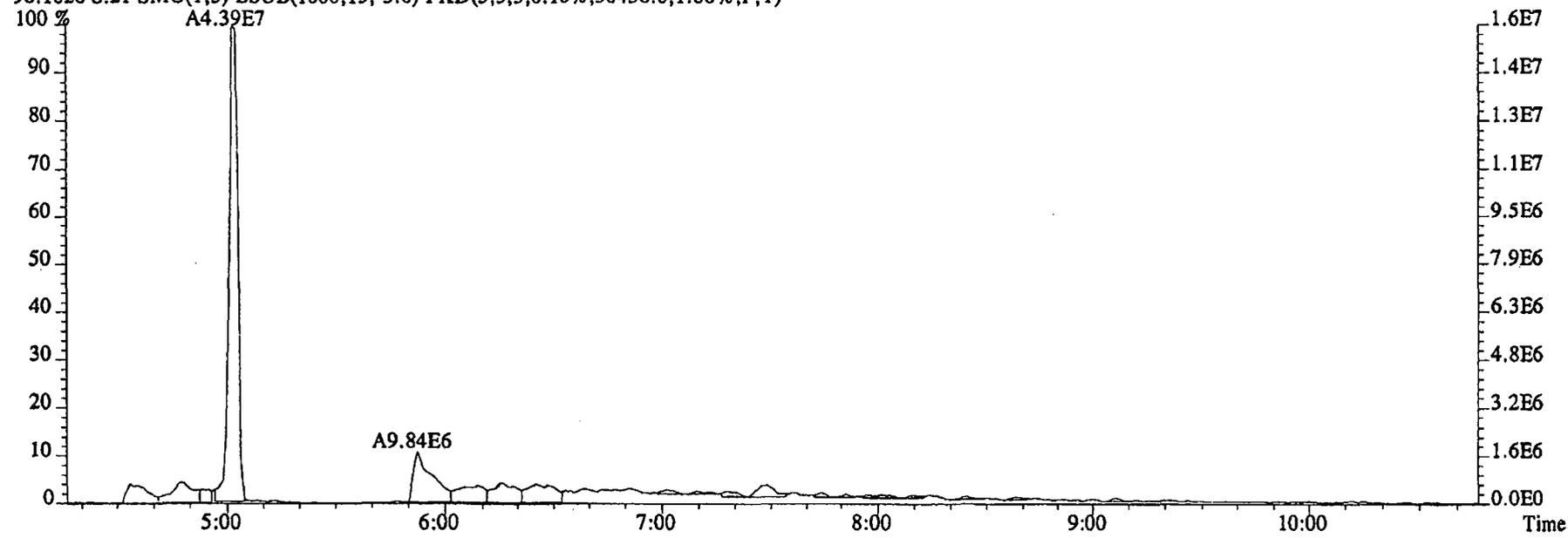
Run text: GX6F1-1-AC Sample text: GX6F1-1-AC :G4L020335-4  
 Run #19 Filename: 03DE04B5SP S: 21 I: 1 Results: 03DE045SP1625  
 Acquired: 4-DEC-04 04:48:02 Processed: 6-DEC-04 13:29:37  
 Run: 03DE04B5SP Analyte: 1625 Cal: 16251203045SP  
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.971 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	105463000		10:57	-	361.41	-	-	n
D8-1,4-Dioxane	43864400		5:01	0.99	86.78	0.79	8.4	n
1,4-Dioxane	49477200		5:02	1.59	729.23	3.87	-	n
D5-123-TriChloroPropane	119361000		9:53	4.02	57.95	0.18	56.3	n
1,2,3-TriChloroPropane	*		NotFnd	0.39	*	0.91	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	21436800		10:03	2.49	16.83	0.19	16.3	n
NDMA	*		NotFnd	1.10	*	<del>3.17</del>	-	n
2-Chloropyridine	338568000		10:57	-	363.11	-	-	n

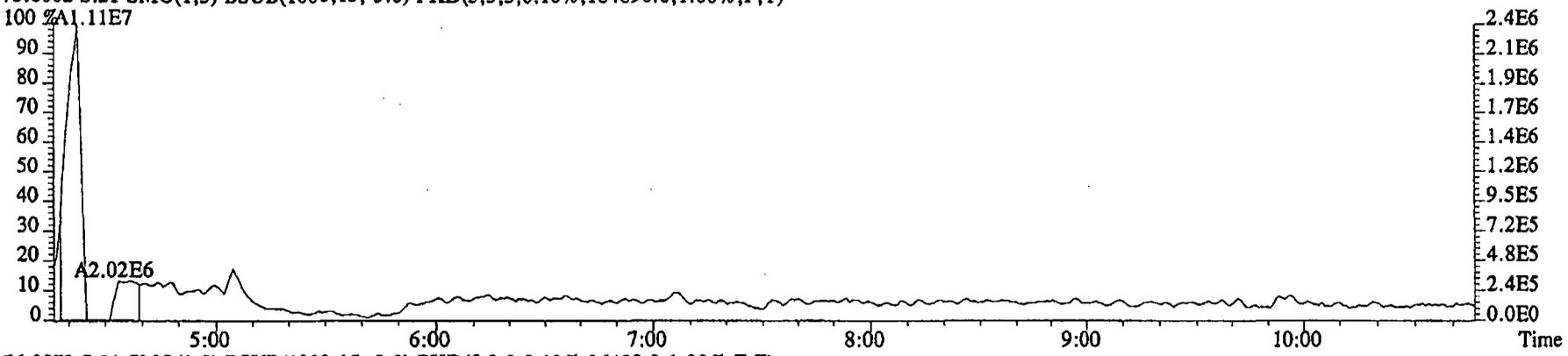
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:48:02 GC EI+ Voltage SIR 70SE  
Sample#21 Text:GX6F1-1-AC :G4L020335-4 Exp:NDMAVOA  
88.0524 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31528.0,1.00%,F,T)



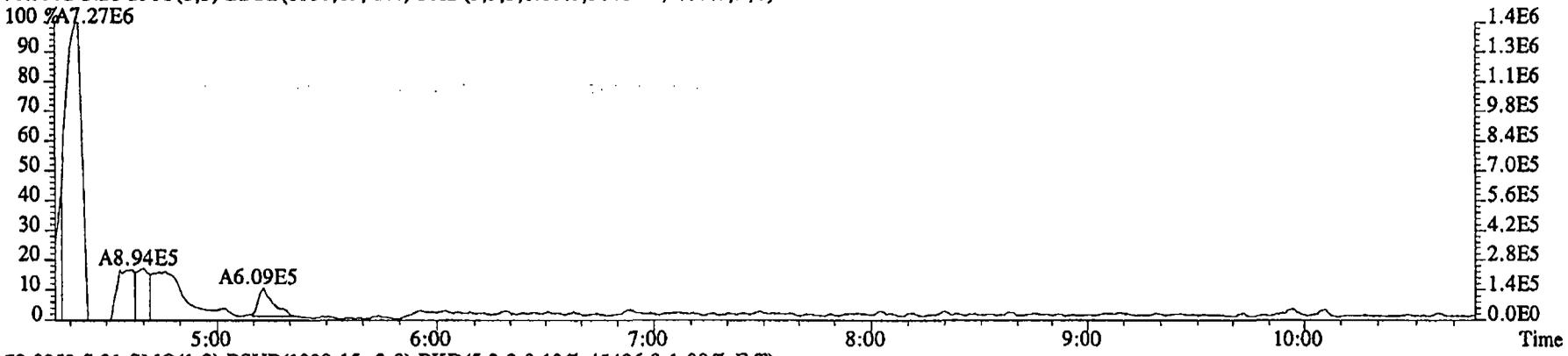
96.1026 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,50456.0,1.00%,F,T)



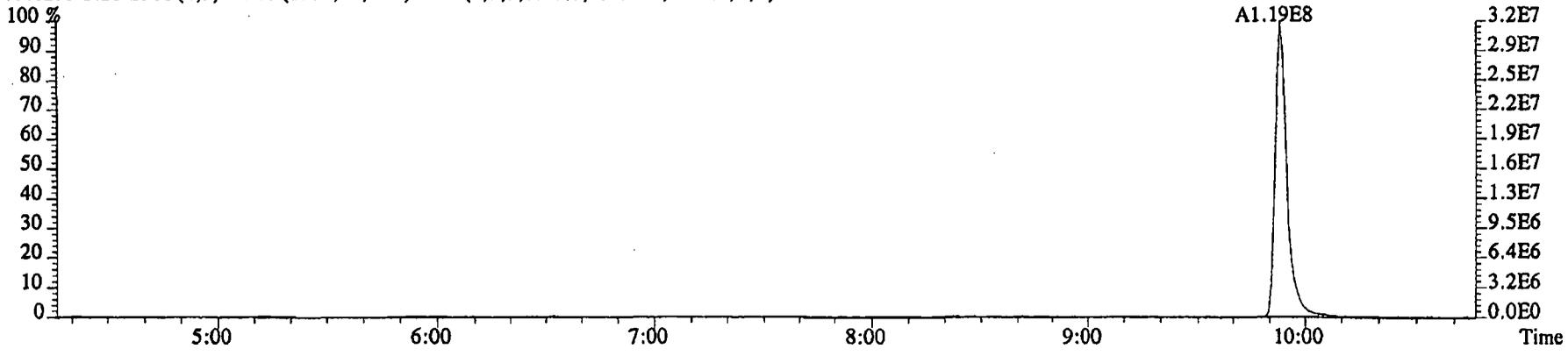
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:48:02 GC EI+ Voltage SIR 70SE  
Sample#21 Text:GX6F1-1-AC :G4L020335-4 Exp:NDMAVOA  
75.0002 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,184896.0,1.00%,F,T)  
100 %A1.11E7



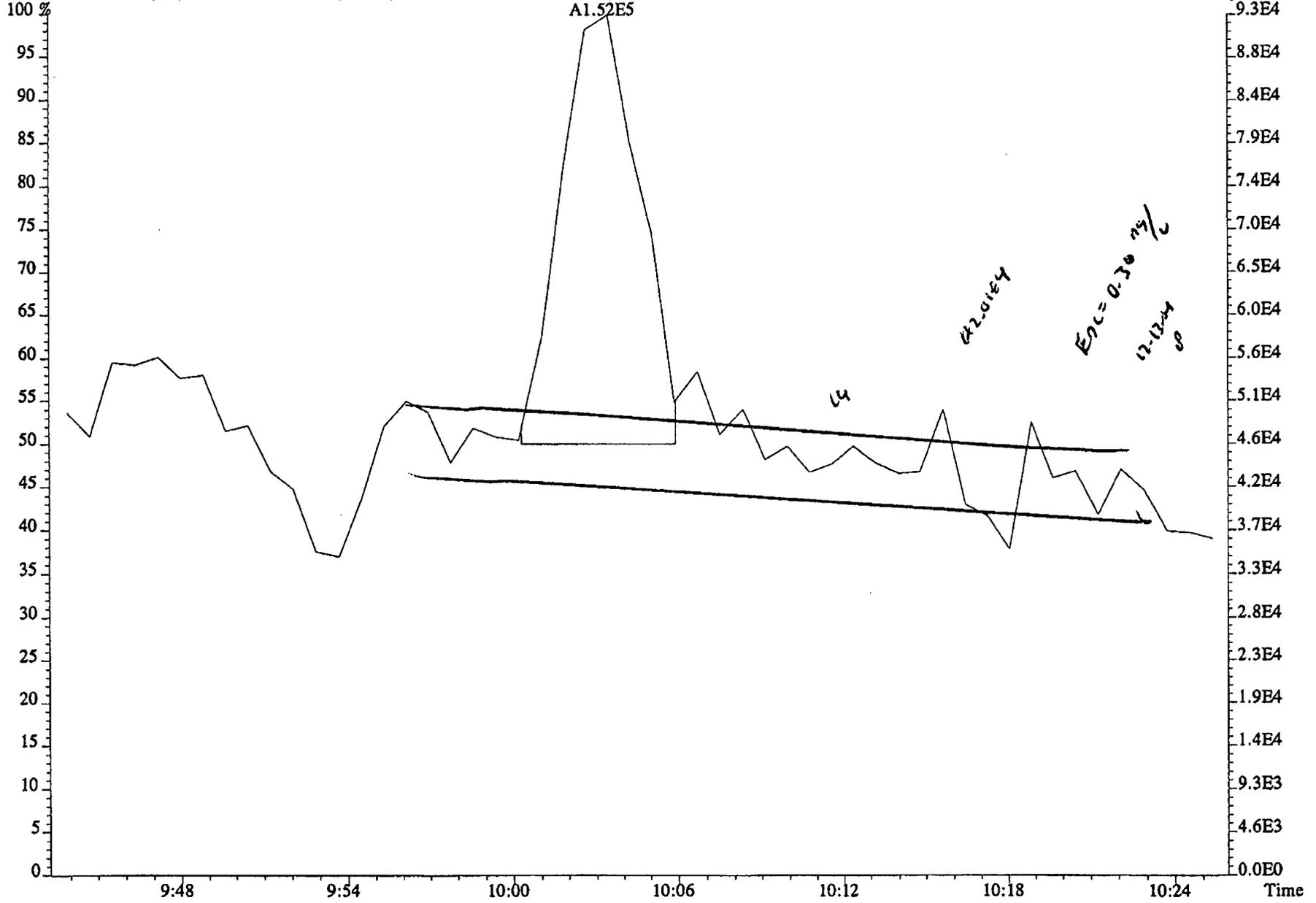
76.9972 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36480.0,1.00%,F,T)  
100 %A7.27E6



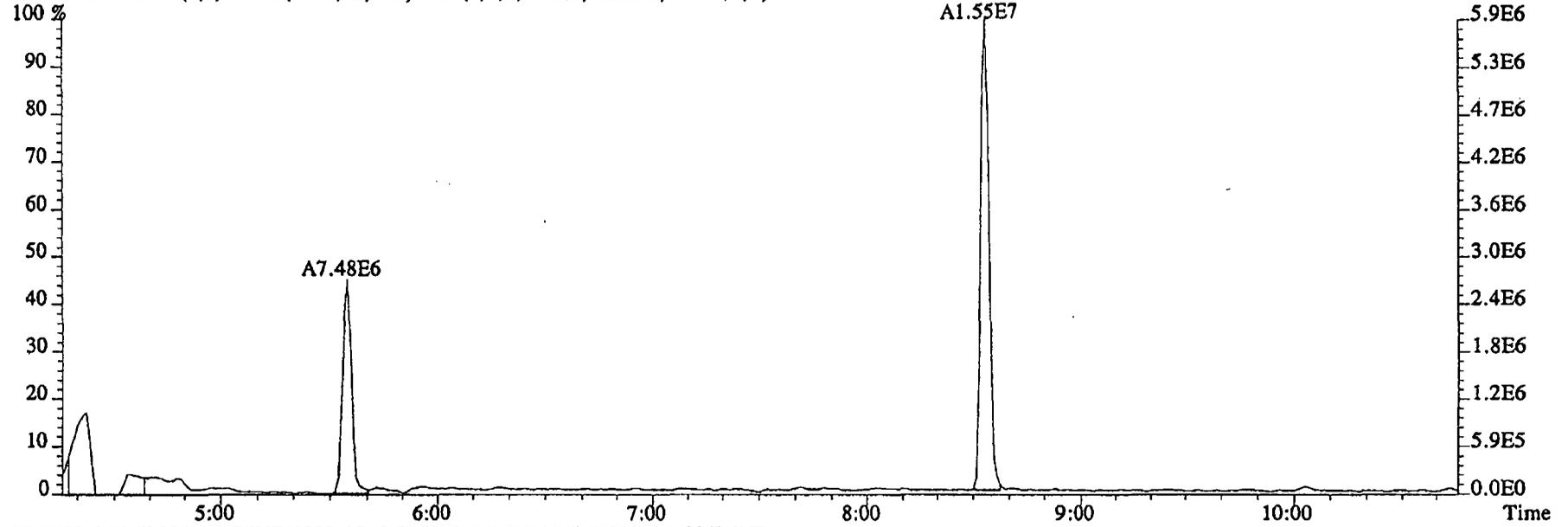
79.0253 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,45496.0,1.00%,F,T)  
100 %



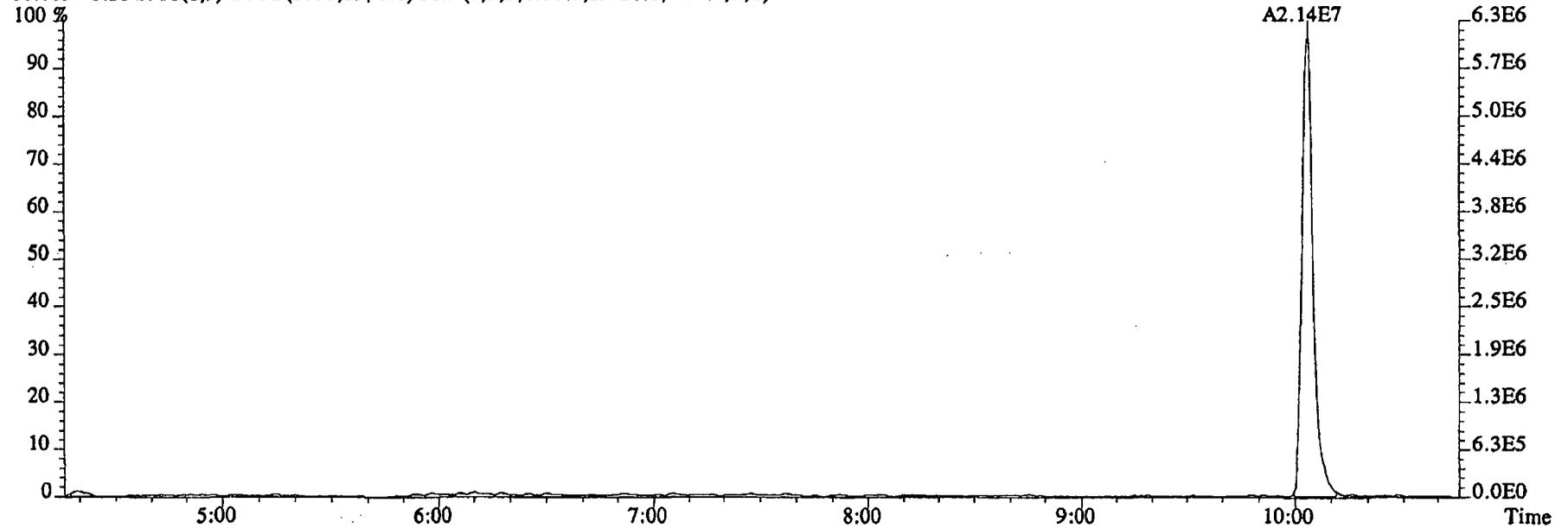
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:48:02 GC EI+ Voltage SIR 70SE  
Sample#21 Text:GX6F1-1-AC :G4L020335-4 Exp:NDMAVOA  
74.0480 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,71220.0,1.00%,F,T)



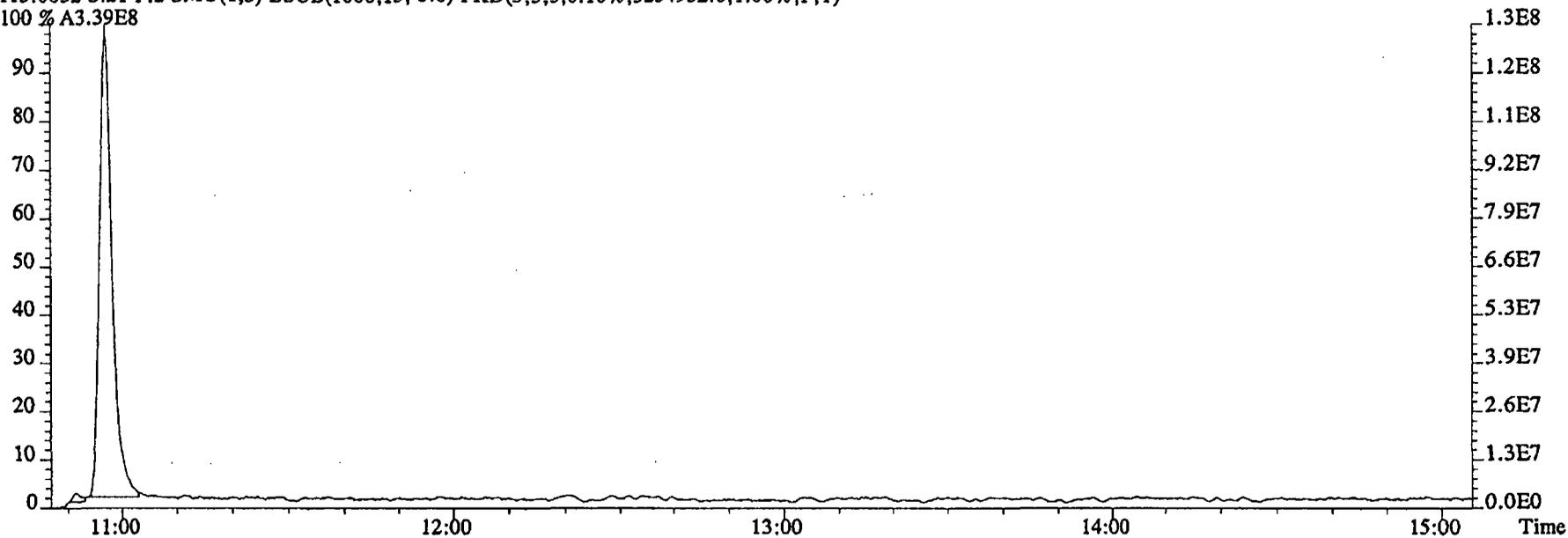
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:48:02 GC EI+ Voltage SIR 70SE  
Sample#21 Text:GX6F1-1-AC :G4L020335-4 Exp:NDMAVOA  
74.0480 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,71220.0,1.00%,F,T)



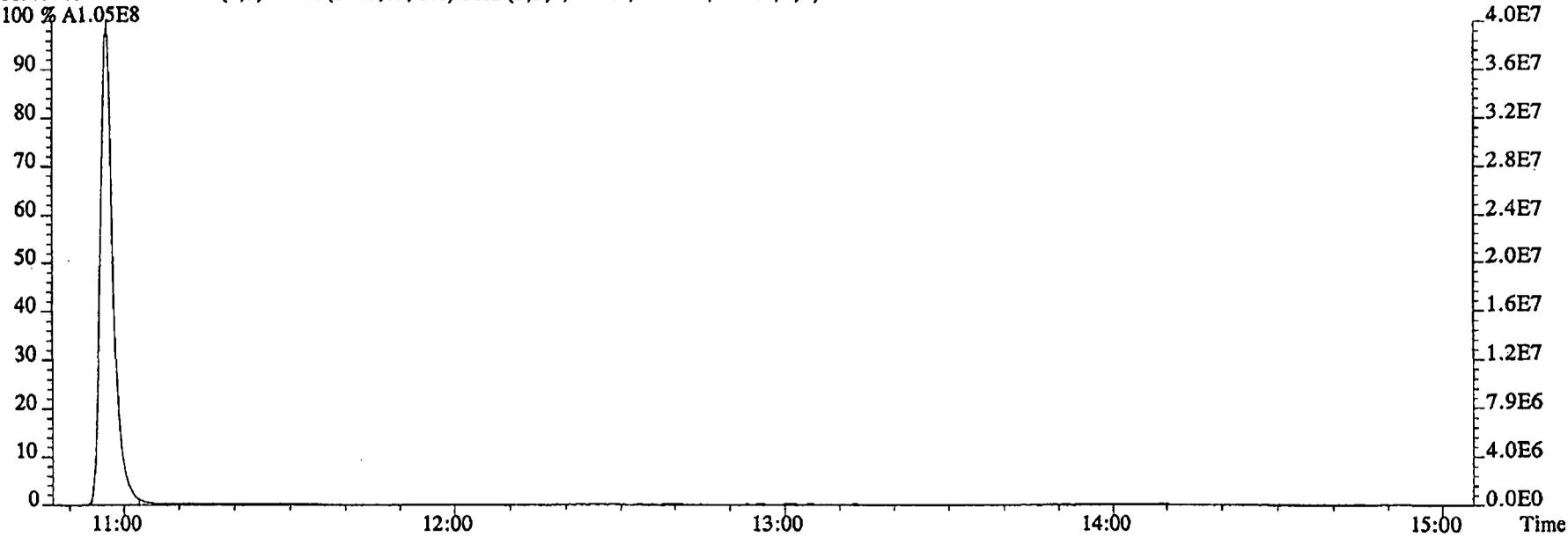
80.0857 S:21 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29728.0,1.00%,F,T)



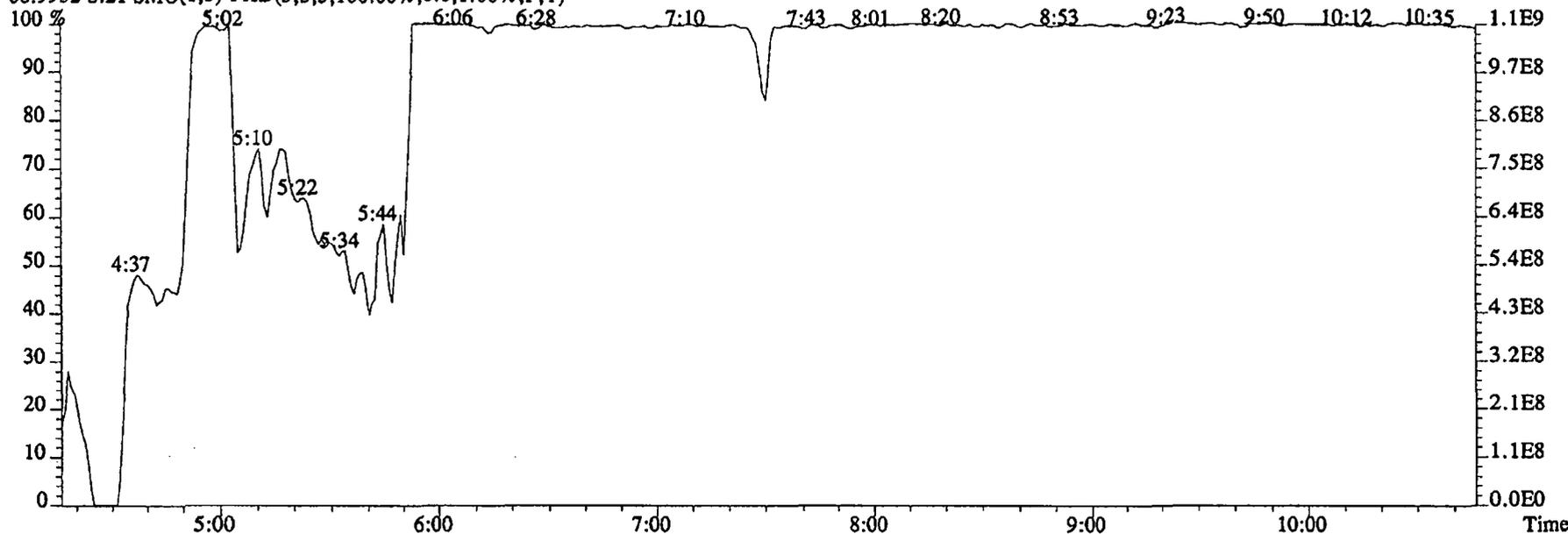
File:03DE04B5SP #1-602 Acq: 4-DEC-2004 04:48:02 GC EI+ Voltage SIR 70SE  
Sample#21 Text:GX6F1-1-AC :G4L020335-4 Exp:NDMAVOA  
113.0032 S:21 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3234932.0,1.00%,F,T)  
100 % A3.39E8



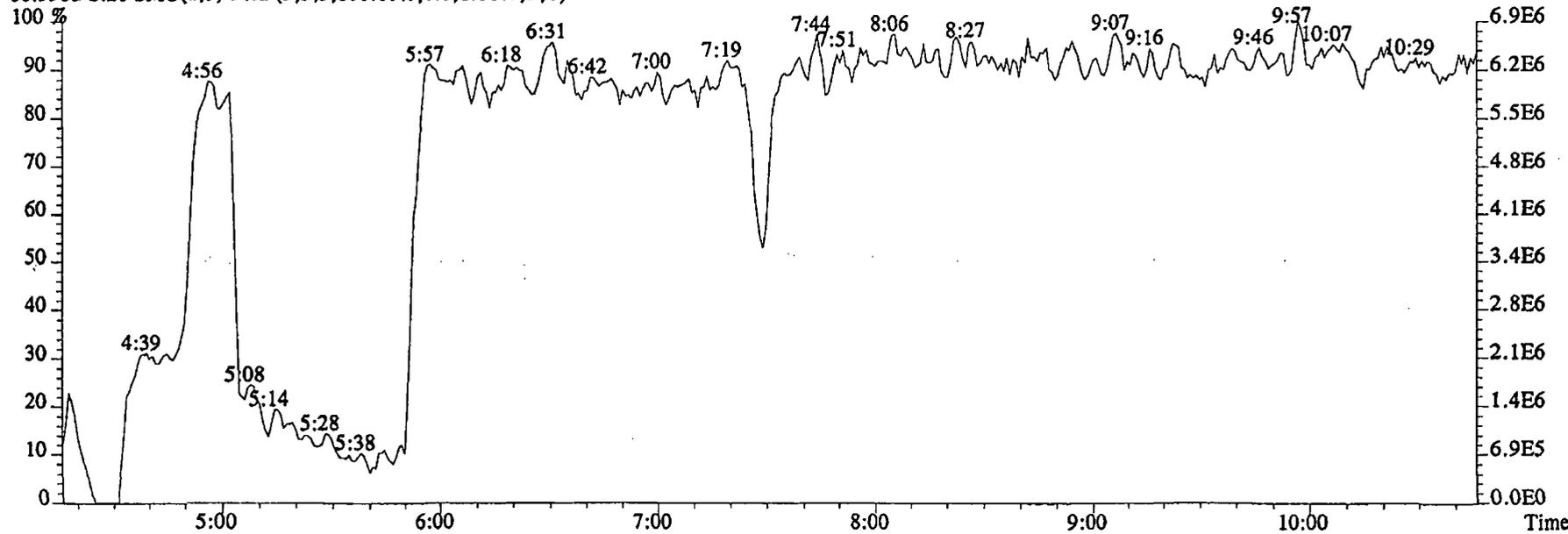
115.0003 S:21 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27988.0,1.00%,F,T)  
100 % A1.05E8



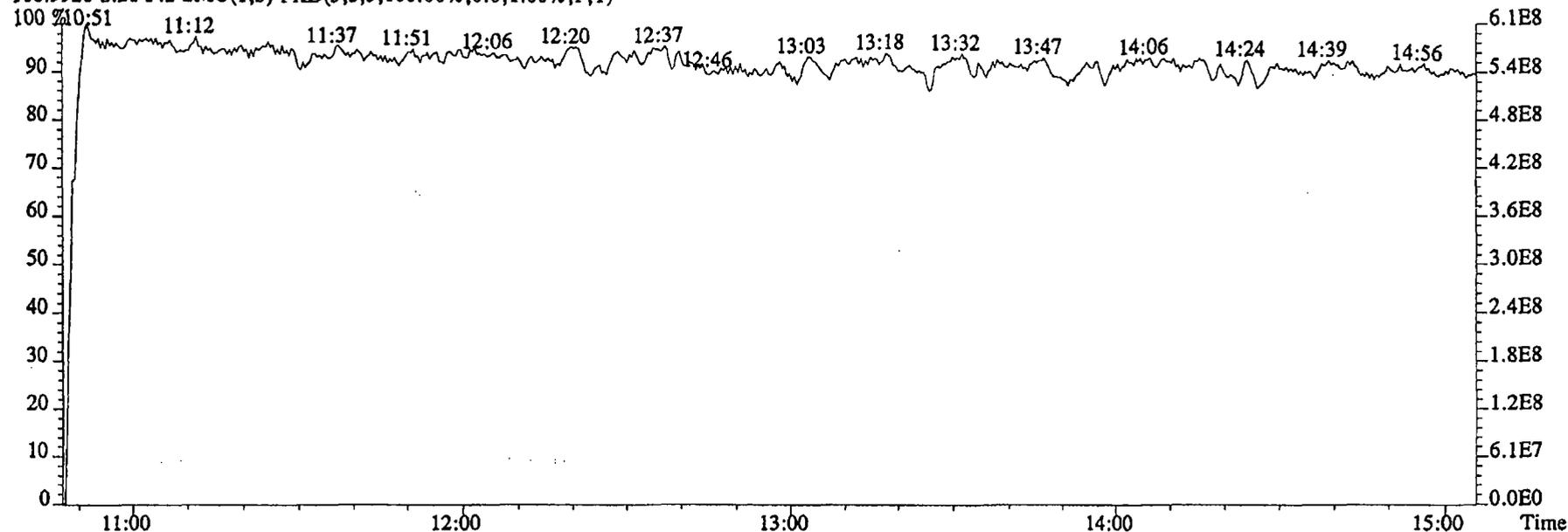
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 04:48:02 GC EI+ Voltage SIR 70SE  
Sample#21 Text:GX6F1-1-AC :G4L020335-4 Exp:NDMAVOA  
68.9952 S:21 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



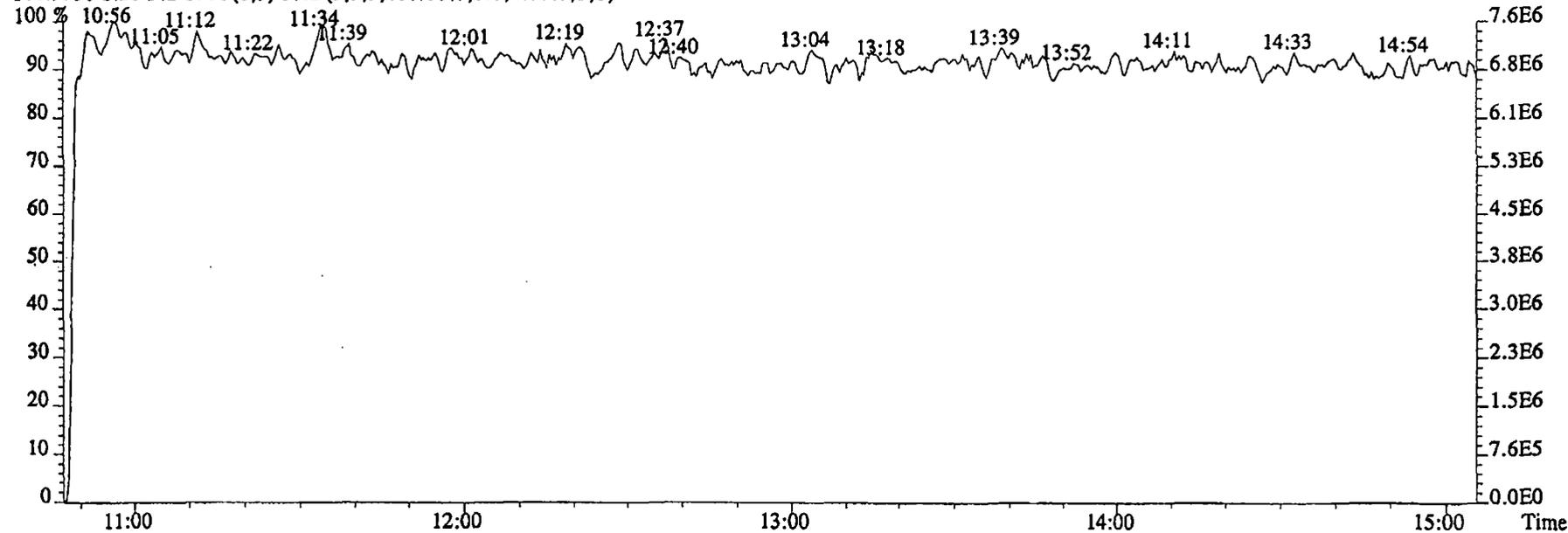
80.9952 S:21 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-602 Acq: 4-DEC-2004 04:48:02 GC EI+ Voltage SIR 70SE  
Sample#21 Text:GX6F1-1-AC :G4L020335-4 Exp:NDMAVOA  
118.9920 S:21 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:21 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)





Run text: ST1203J

File text: ST1203J :CS3 2350-68C

Run #6 Filename 03DE04B5SP S: 7

I: 1

Acquired: 4-DEC-04 00:03:00

Processed: 6-DEC-04 13:29:32

Run: 03DE04B5SP Analyte: 1625

Cal: 16251203045SP

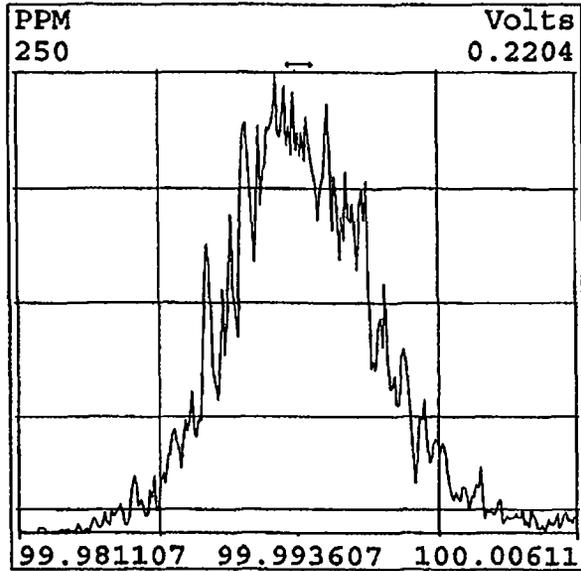
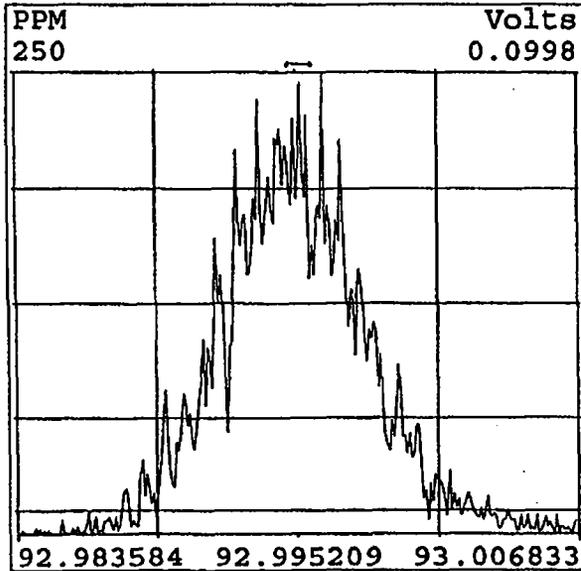
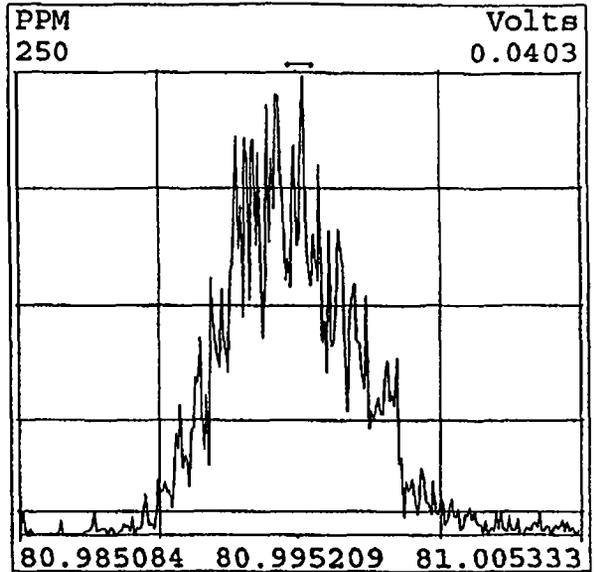
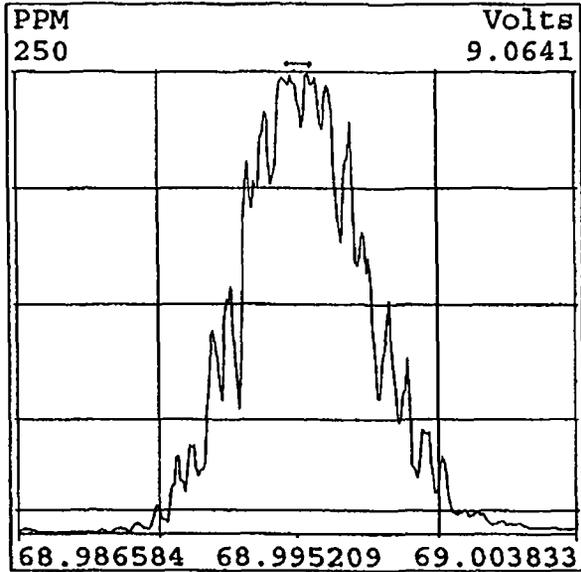
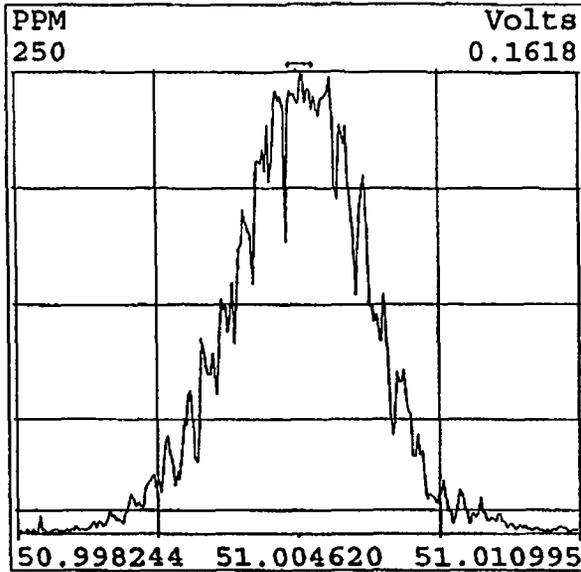
Results: 03DE045SP1625

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
2-Chloropyridine	84402000		10:57	-	200.00	-	n
D8-1,4-Dioxane	434497000		5:01	1.03	1000.00	4.3	n
1,4-Dioxane	30921800		5:02	1.42	50.00	-10.6	n
D5-123-TriChloroPropane	168112000		9:53	3.98	100.00	-1.0	n
1,2,3-TriChloroPropane	29882600		9:57	0.36	50.00	-9.1	n
1,2,3-TriChloroPropane	93184800		9:57	-	50.00	-	n
D6-NDMA	103878000		10:04	2.46	100.00	-1.0	n
NDMA	54663200		10:03	1.05	50.00	-4.5	n
2-Chloropyridine	268304000		10:57	-	200.00	-	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
03DE04B5SP	1	ST1203E	CS1 2350-68A				1.000	
03DE04B5SP	2	ST1203F	CS2 2350-68B				1.000	
03DE04B5SP	3	ST1203G	CS3 2350-68C				1.000	
03DE04B5SP	4	ST1203H	CS4 2350-68D				1.000	
03DE04B5SP	5	ST1203I	CS5 2350-68E				1.000	
03DE04B5SP	6	SB1203	Solvent Blank DCM				1.000	
03DE04B5SP	7	ST1203J	CS3 2350-68C				1.000	
03DE04B5SP	8	SB1203A	Solvent Blank DCM				1.000	
03DE04B5SP	9	GX8C2-1-AAB	G4L010311-1MB	500	1625/WATER	VS51	1.000	L
03DE04B5SP	10	GX8C2-1-ACC	G4L010311-1LCS	500	1625/WATER		1.000	L
03DE04B5SP	11	GX3LR-1-AA	G4L010311-1	500	1625/WATER		0.940	L
03DE04B5SP	12	GX3LW-1-AC	G4L010311-2	500	1625/WATER		0.979	L
03DE04B5SP	13	GX3LW-1-AFS	G4L010311-2MS	500	1625/WATER		0.990	L
03DE04B5SP	14	GX3LW-1-AGD	G4L010311-2SD	500	1625/WATER		0.917	L
03DE04B5SP	15	GX3L0-1-AC	G4L010311-3	500	1625/WATER		0.985	L
03DE04B5SP	16	GX3L1-1-AC	G4L010311-4	500	1625/WATER		0.933	L
03DE04B5SP	17	GX5HC-1-AA	G4L020252-1	500	1625/WATER		0.962	L
03DE04B5SP	18	GX6EX-1-AC	G4L020335-1	500	1625/WATER		0.988	L
03DE04B5SP	19	GX6FF-1-AC	G4L020335-2	500	1625/WATER		0.980	L
03DE04B5SP	20	GX6FQ-1-AA	G4L020335-3	500	1625/WATER		0.987	L
03DE04B5SP	21	GX6F1-1-AC	G4L020335-4	500	1625/WATER		0.971	L
03DE04B5SP	22	SB1203B	Solvent Blank DCM				1.000	
03DE04B5SP	23	MDLNDMAS-MB	MDL-NDMA-SOIL-MB	500	1625/SOLID	VS51	10.000	g
03DE04B5SP	24	MDLNDMAS-L1	MDL-NDMA-SOIL-LCS1	500	1625/SOLID		10.000	g
03DE04B5SP	25	MDLNDMAS-L2	MDL-NDMA-SOIL-LCS2	500	1625/SOLID		10.000	g
03DE04B5SP	26	MDLNDMAS-L3	MDL-NDMA-SOIL-LCS3	500	1625/SOLID		10.000	g
03DE04B5SP	27	MDLNDMAS-L4	MDL-NDMA-SOIL-LCS4	500	1625/SOLID		10.000	g
03DE04B5SP	28	MDLNDMAS-L5	MDL-NDMA-SOIL-LCS5	500	1625/SOLID		10.000	g
03DE04B5SP	29	MDLNDMAS-L6	MDL-NDMA-SOIL-LCS6	500	1625/SOLID		10.000	g
03DE04B5SP	30	MDLNDMAS-L7	MDL-NDMA-SOIL-LCS7	500	1625/SOLID		10.000	g
03DE04B5SP	31	ST1203K	CS3 2350-68C				1.000	
03DE04B5SP	32						1.000	
03DE04B5SP	33						1.000	
03DE04B5SP	34						1.000	
03DE04B5SP	35						1.000	
03DE04B5SP	36						1.000	
03DE04B5SP	37		AM 12-03-04				1.000	

log file checked  
12-04-04 am

Peak Locate Examination: 3-DEC-2004:21:57 File:03DE04B5SP  
Experiment:NDMAVOA Function:1 Reference:PFK



Run: 03DE04B5SPI $\eta$  Analyte: 1625

Cal: 16251203045SP

ST1203E :CS1 2350-68A

ST1203F :CS2 2350-68B

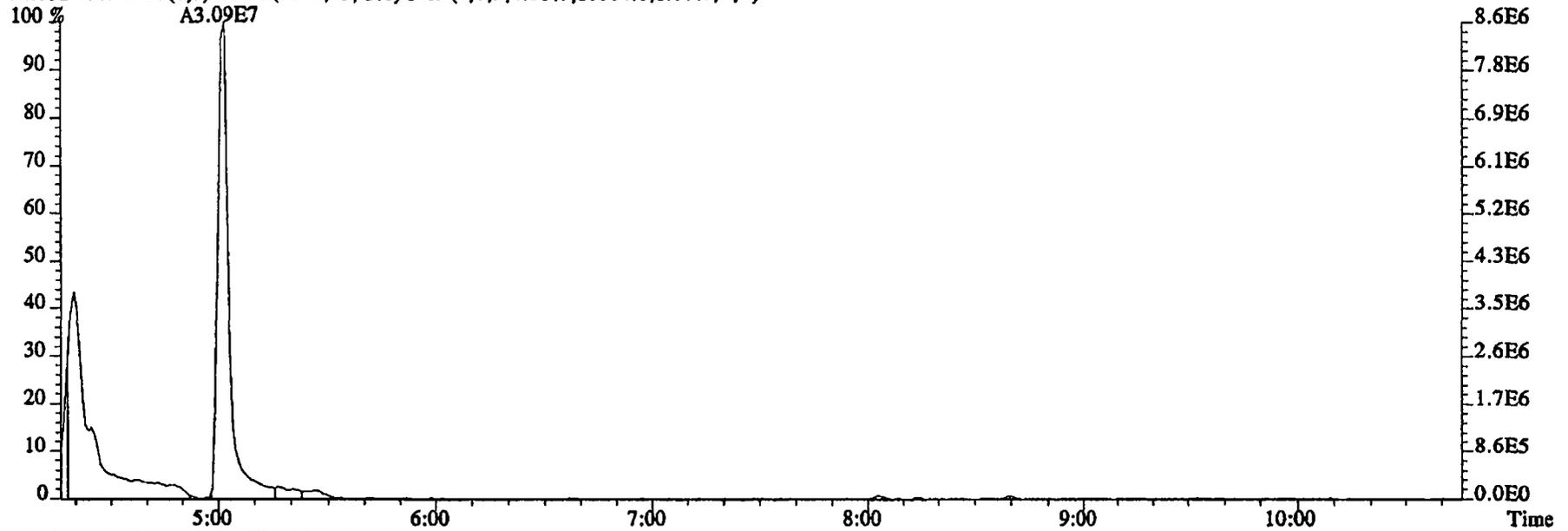
ST1203G :CS3 2350-68C

ST1203H :CS4 2350-68D

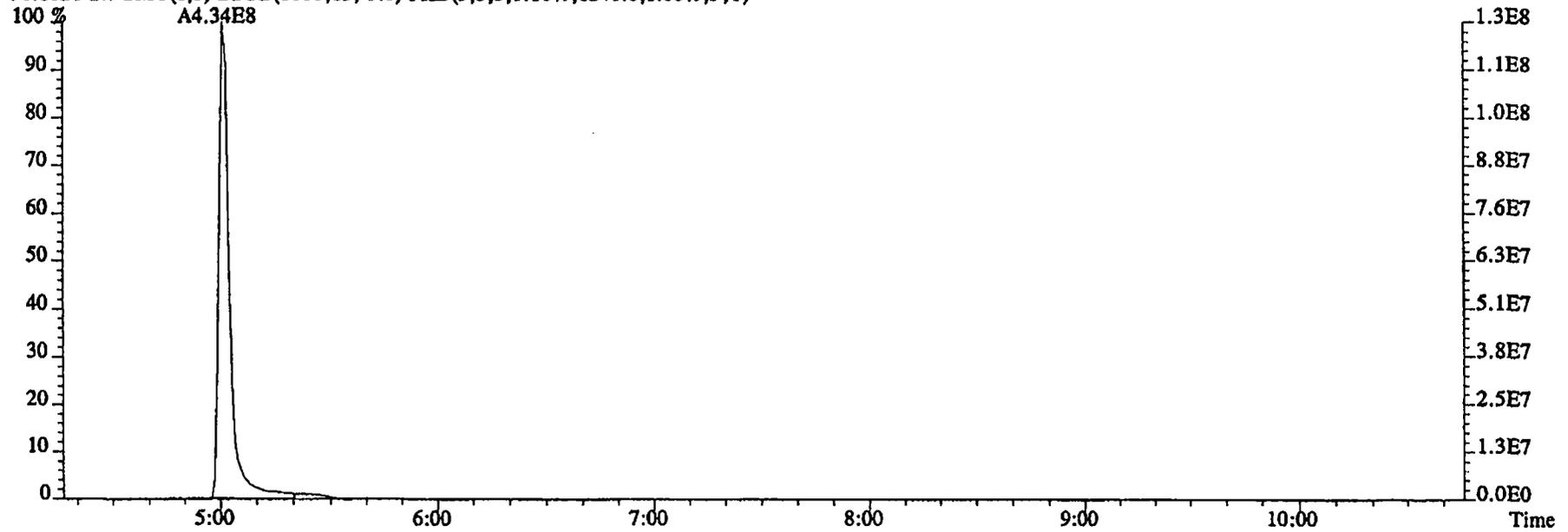
ST1203I :CS5 2350-68E

Name	Mean	S. D.	%RSD	03DE04B5SP03DE04B5SP03DE04B5SP03DE04B5SP03DE04B5SP				
				S1 RRF1	S2 RRF2	S3 RRF3	S4 RRF4	S5 RRF5
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	0.987	0.060	6.10 %	1.08	1.01	0.97	0.93	0.95
1,4-Dioxane	1.593	0.108	6.81 %	1.78	1.57	1.51	1.54	1.55
D5-123-TriChloroPropane	4.023	0.096	2.38 %	4.16	3.94	3.99	3.94	4.08
1,2,3-TriChloroPropane	0.391	0.065	16.7 %	0.51	0.36	0.34	0.37	0.37
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	2.487	0.063	2.55 %	2.55	2.44	2.40	2.50	2.54
NDMA	1.102	0.063	5.72 %	1.19	1.02	1.07	1.11	1.13
2-Chloropyridine	-	-	- %	-	-	-	-	-

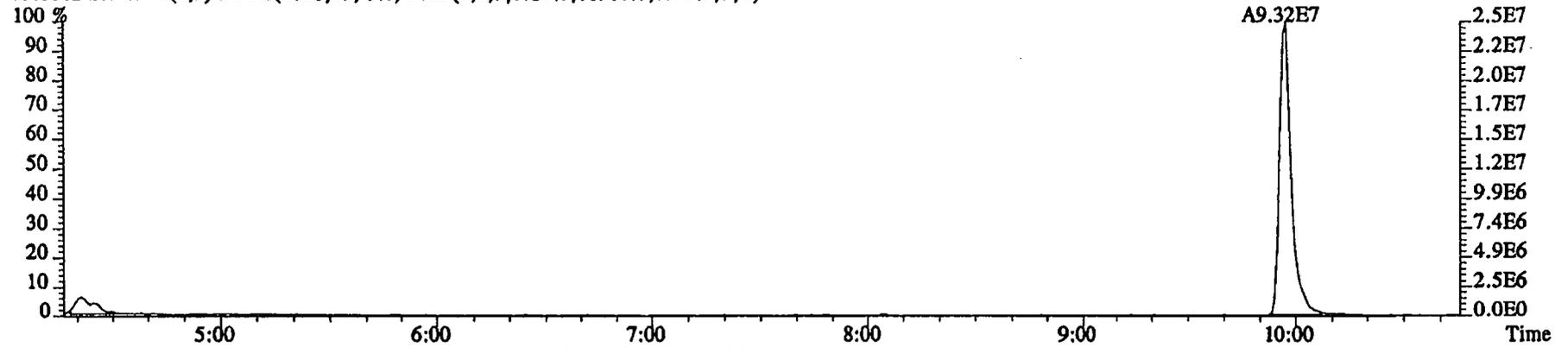
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:03:00 GC EI+ Voltage SIR 70SE  
Sample#7 Text:ST1203J :CS3 2350-68C Exp:NDMAVOA  
88.0524 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10684.0,1.00%,F,T)



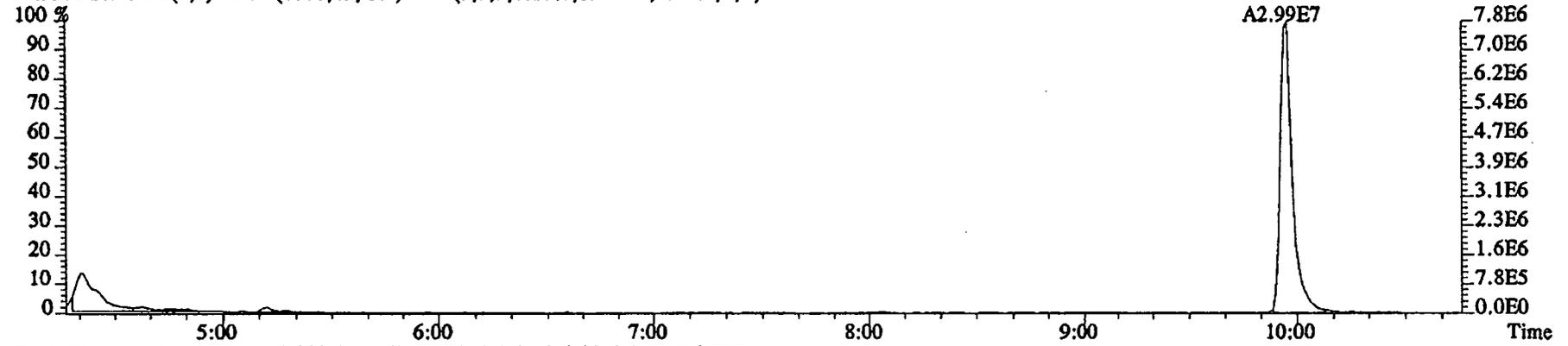
96.1026 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8240.0,1.00%,F,T)



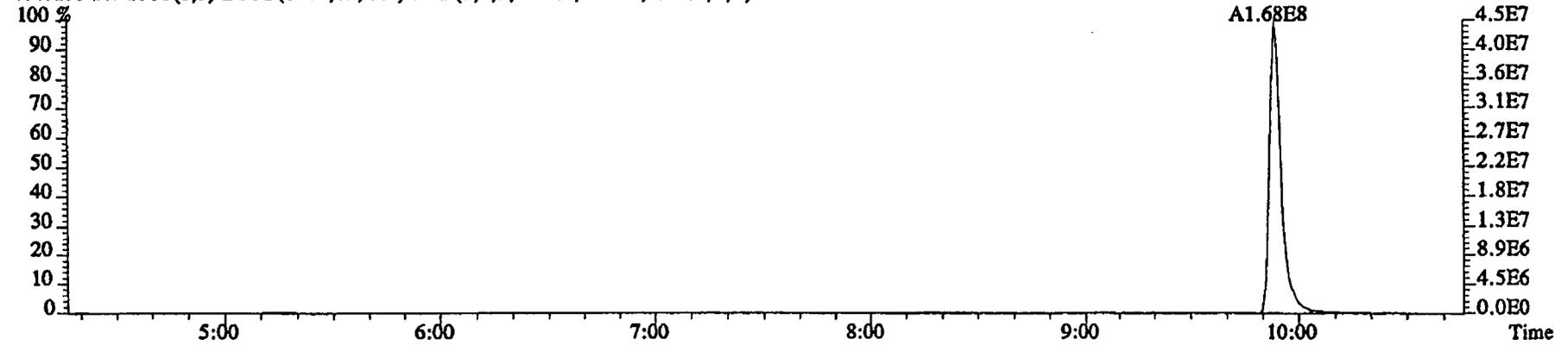
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:03:00 GC EI+ Voltage SIR 70SE  
Sample#7 Text:ST1203J :CS3 2350-68C Exp:NDMAVOA  
75.0002 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61960.0,1.00%,F,T)



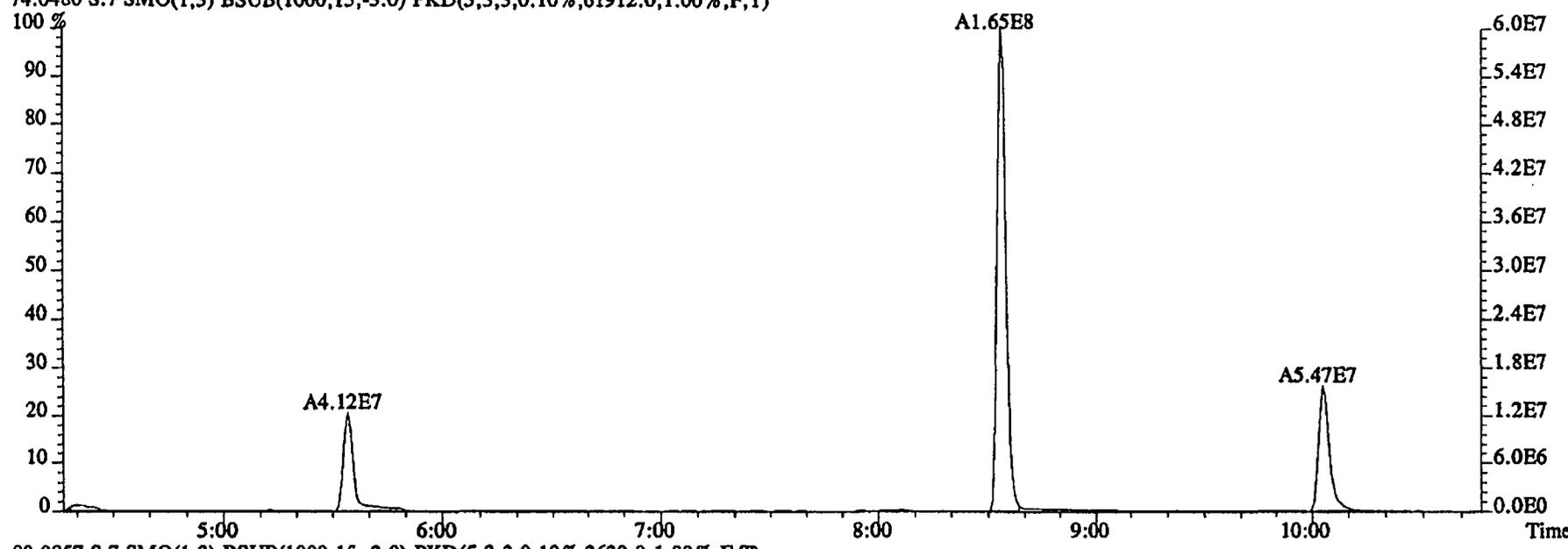
76.9972 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15072.0,1.00%,F,T)



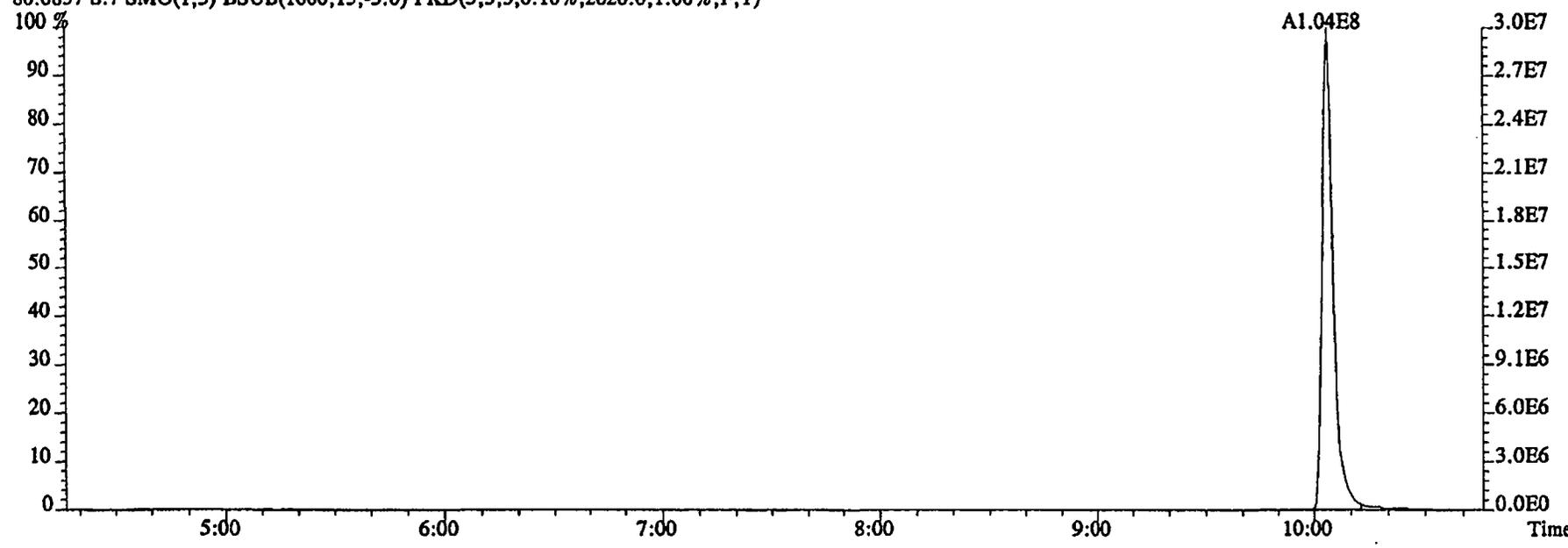
79.0253 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9040.0,1.00%,F,T)



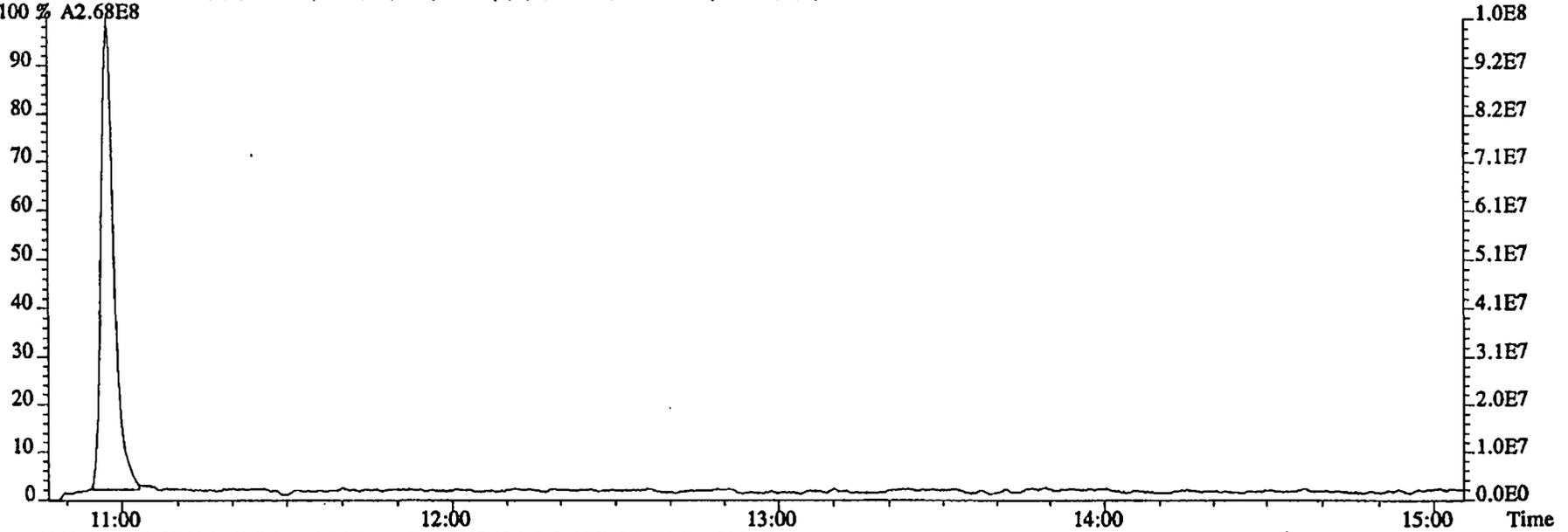
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Sample#7 Text:ST1203J :CS3 2350-68C Exp:NDMAVOA  
74.0480 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,61912.0,1.00%,F,T)



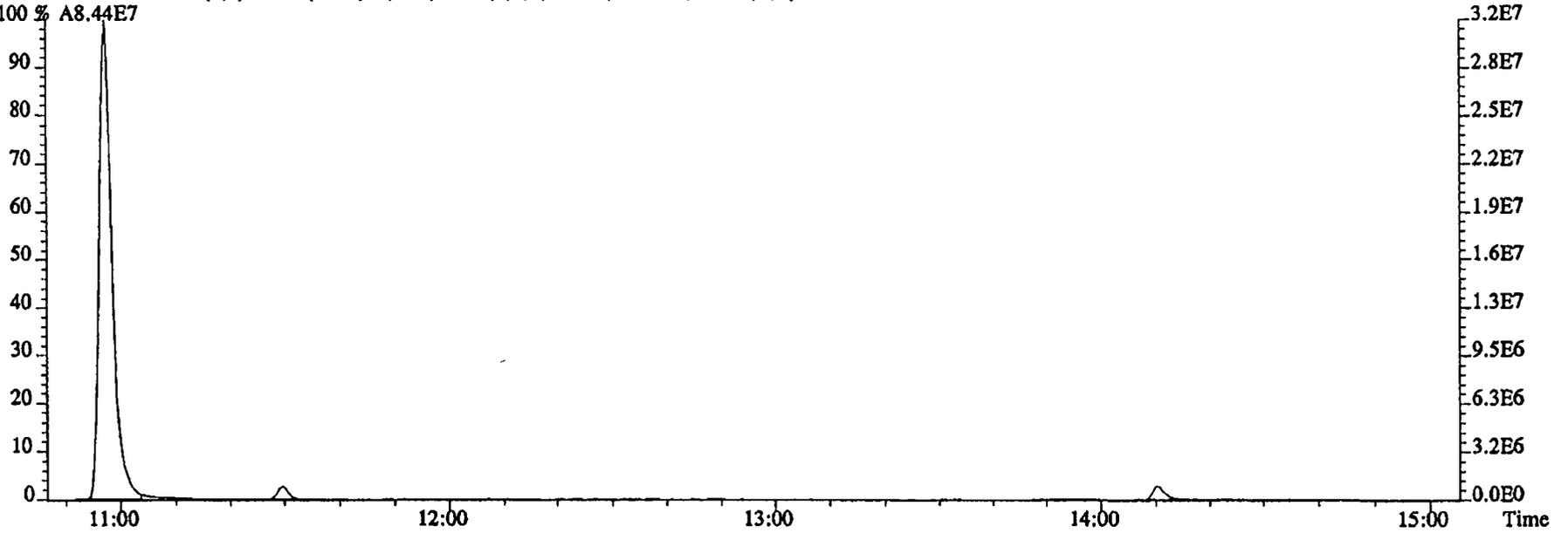
80.0857 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2620.0,1.00%,F,T)



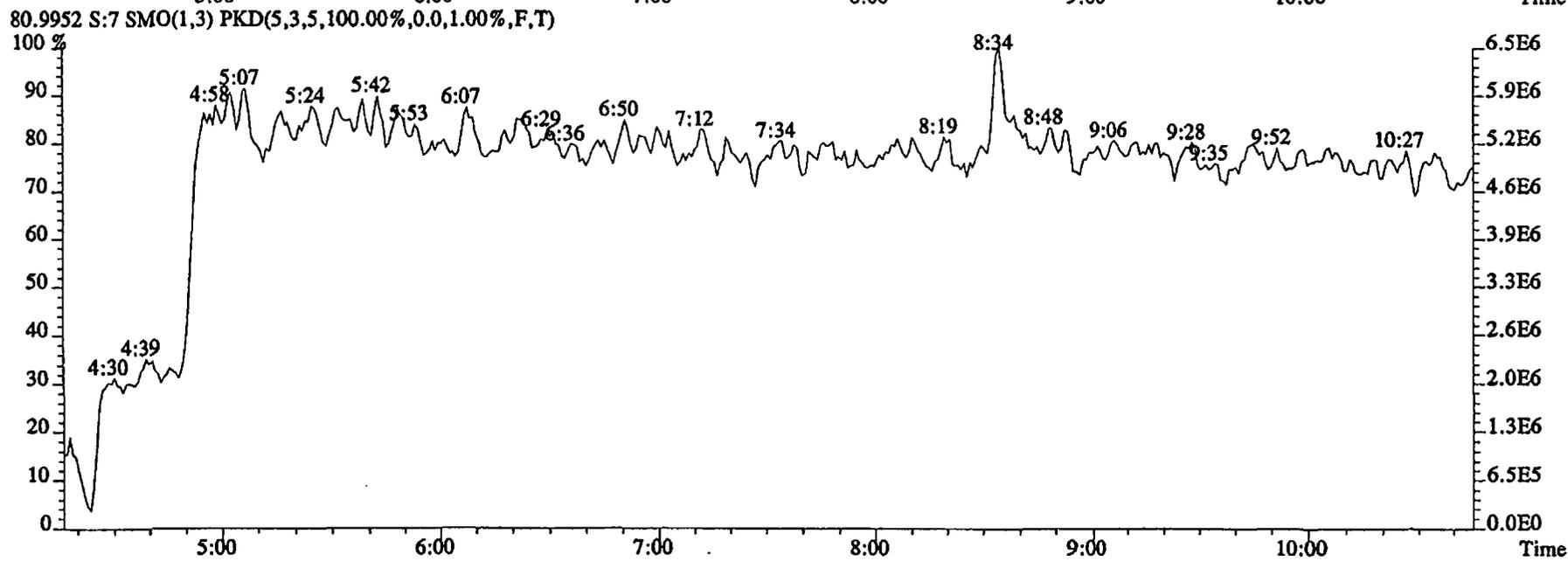
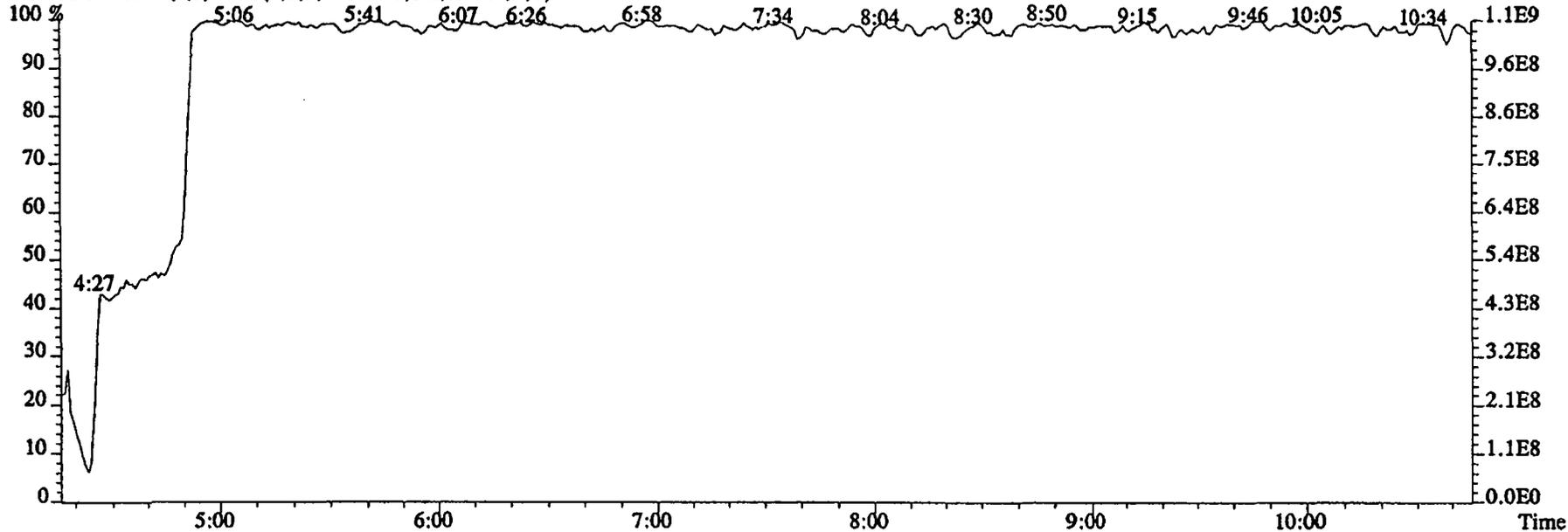
File:03DE04B5SP #1-603 Acq: 4-DEC-2004 00:03:00 GC EI+ Voltage SIR 70SE  
Sample#7 Text:ST1203J :CS3 2350-68C Exp:NDMAVOA  
113.0032 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2473000.0,1.00%,F,T)  
100 % A2.68E8



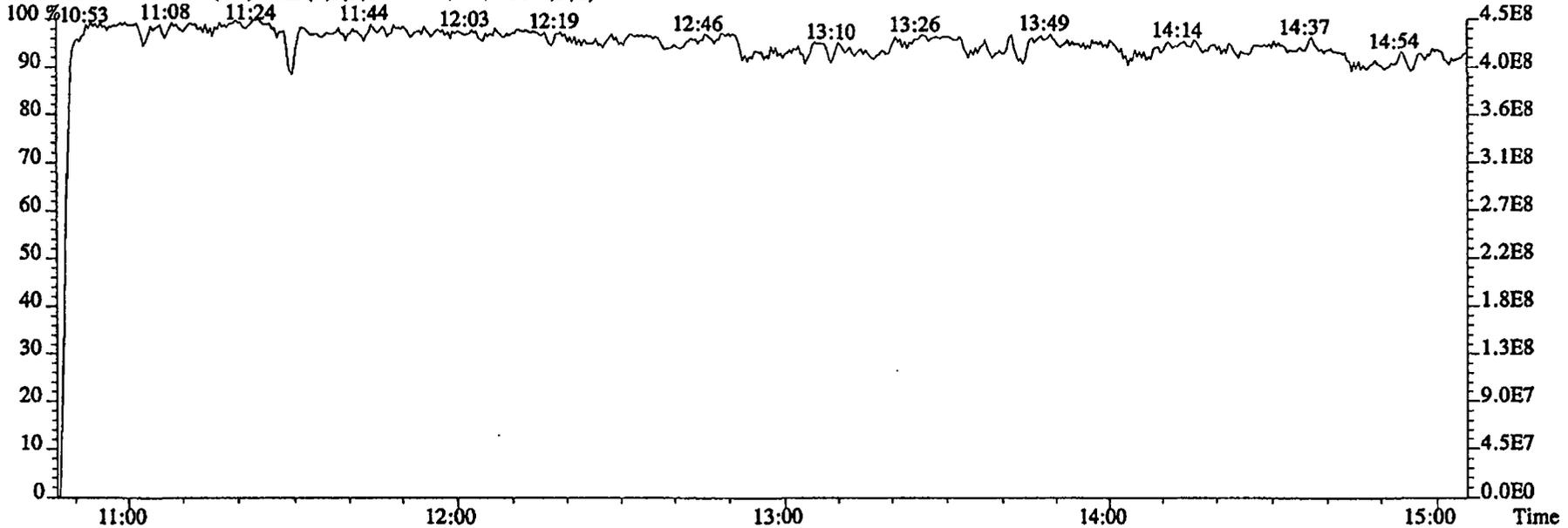
115.0003 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26716.0,1.00%,F,T)  
100 % A8.44E7



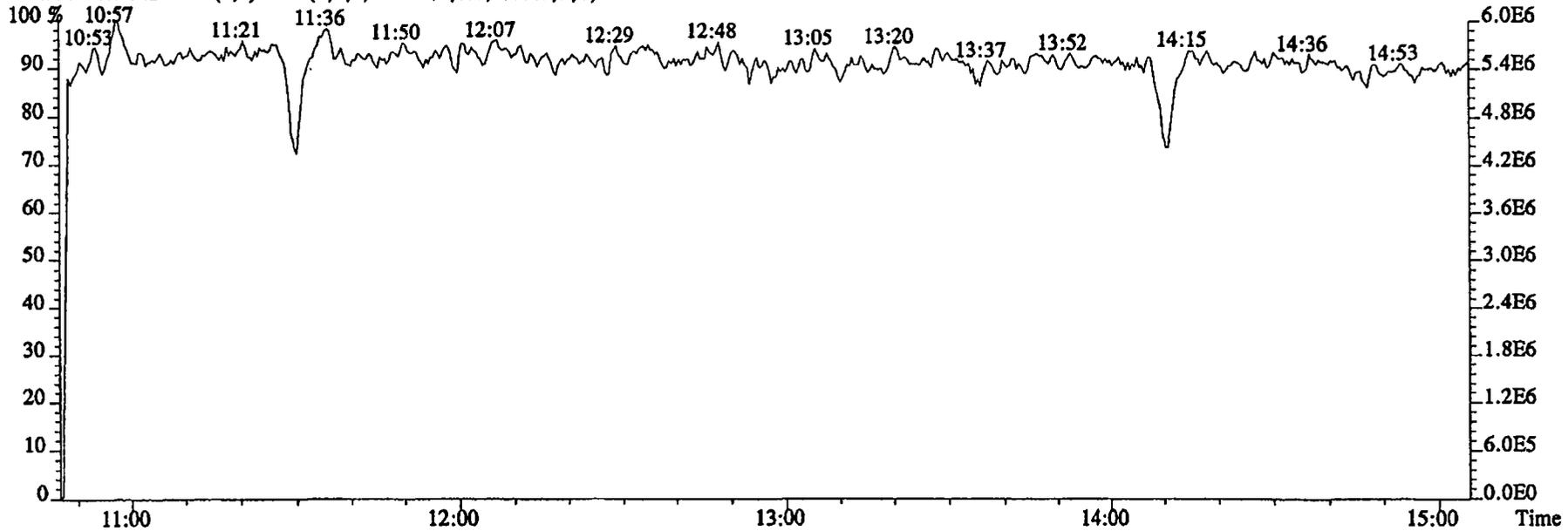
File:03DE04B5SP #1-480 Acq: 4-DEC-2004 00:03:00 GC EI+ Voltage SIR 70SE  
Sample#7 Text:ST1203J :CS3 2350-68C Exp:NDMAVOA  
68.9952 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



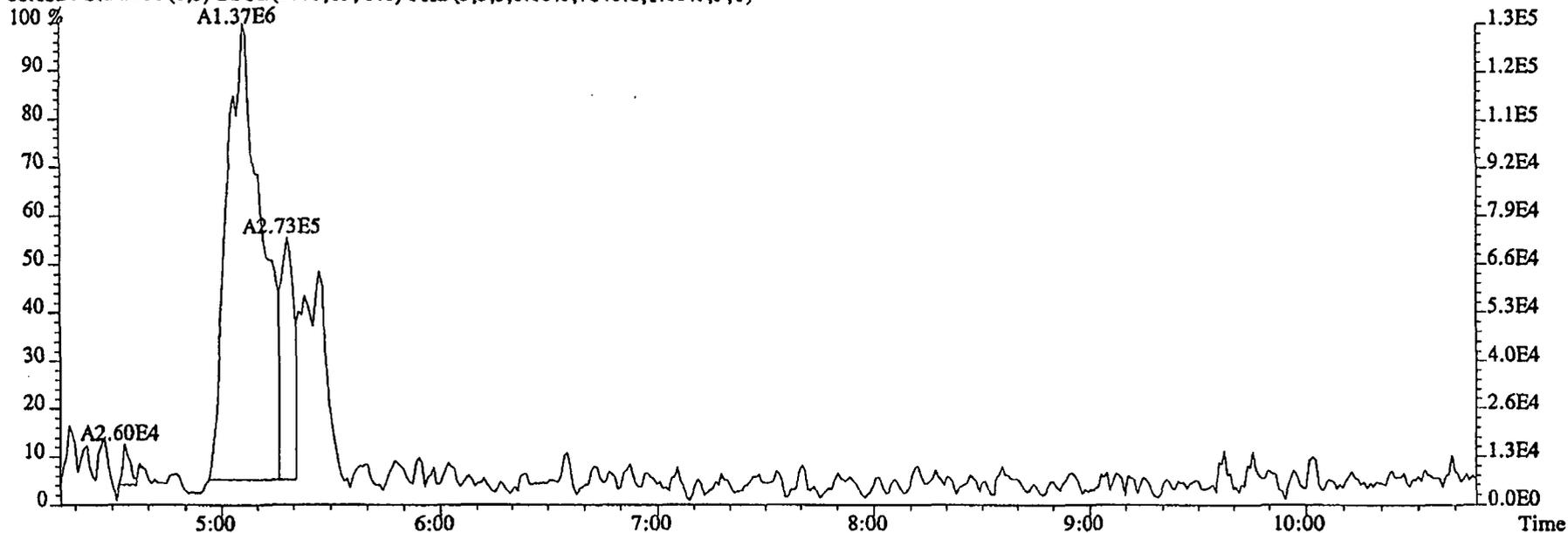
File:03DE04B5SP #1-603 Acq: 4-DEC-2004 00:03:00 GC EI+ Voltage SIR 70SE  
Sample#7 Text:ST1203J :CS3 2350-68C Exp:NDMAVOA  
118.9920 S:7 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



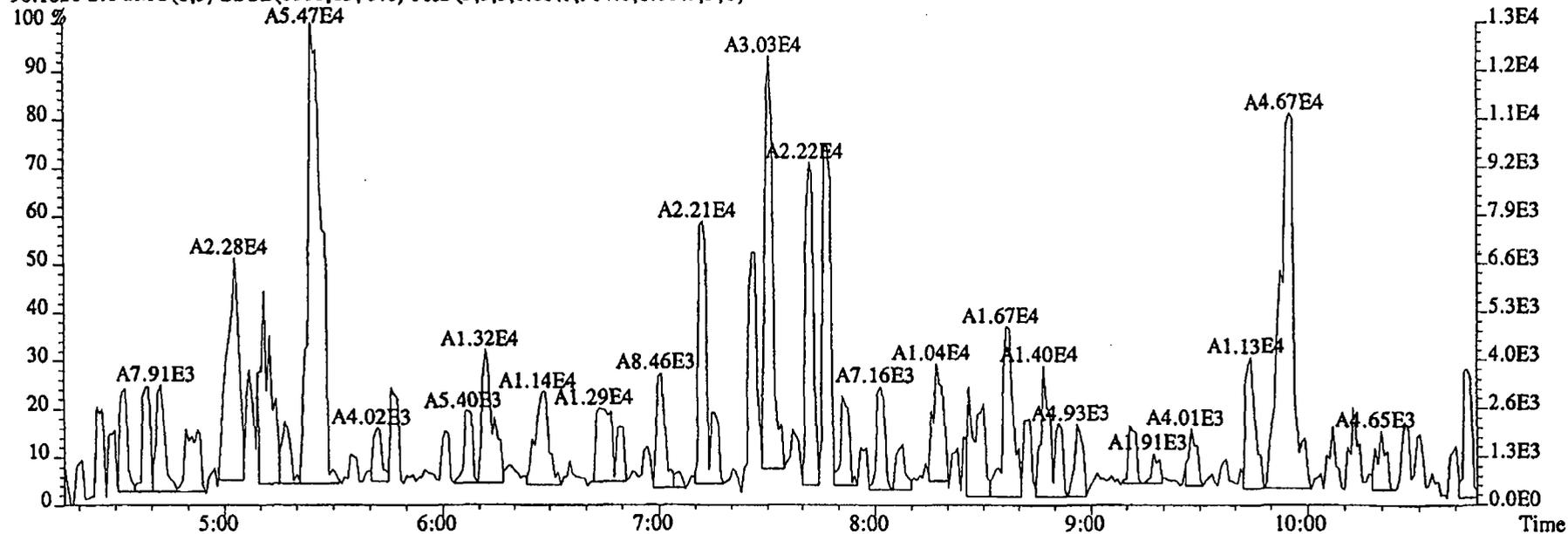
111.9936 S:7 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



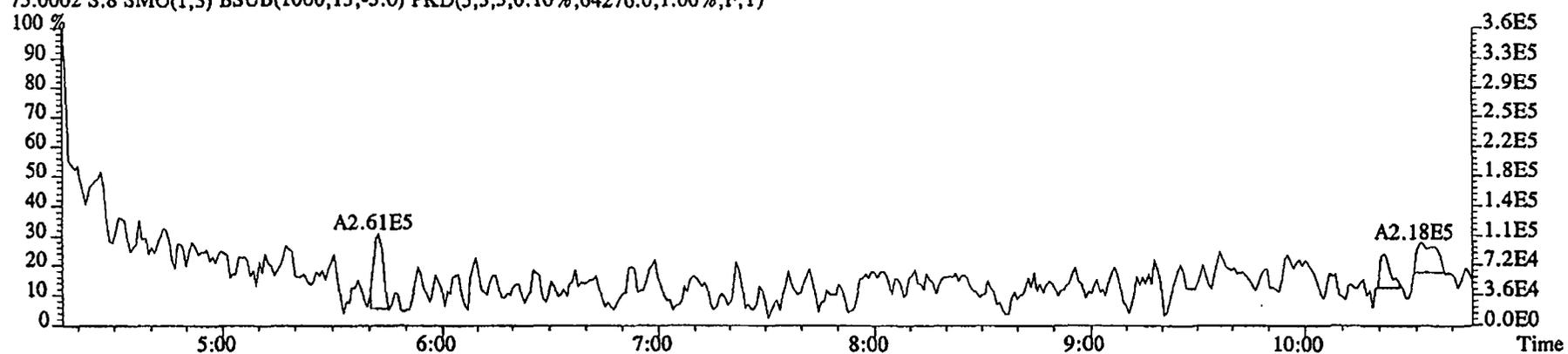
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 00:23:20 GC EI+ Voltage SIR 70SE  
Sample#8 Text:SB1203A :Solvent Blank DCM Exp:NDMAVOA  
88.0524 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7840.0,1.00%,F,T)



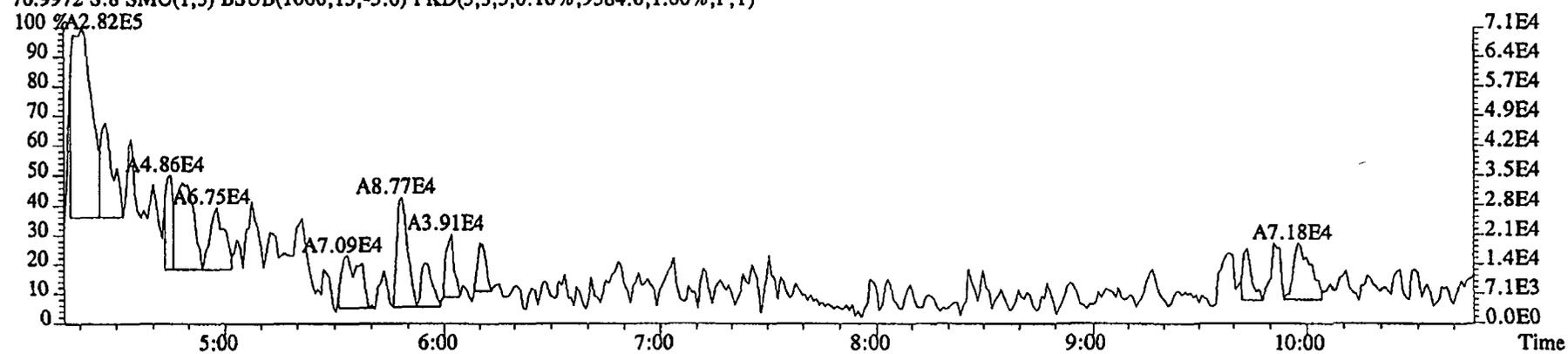
96.1026 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,964.0,1.00%,F,T)



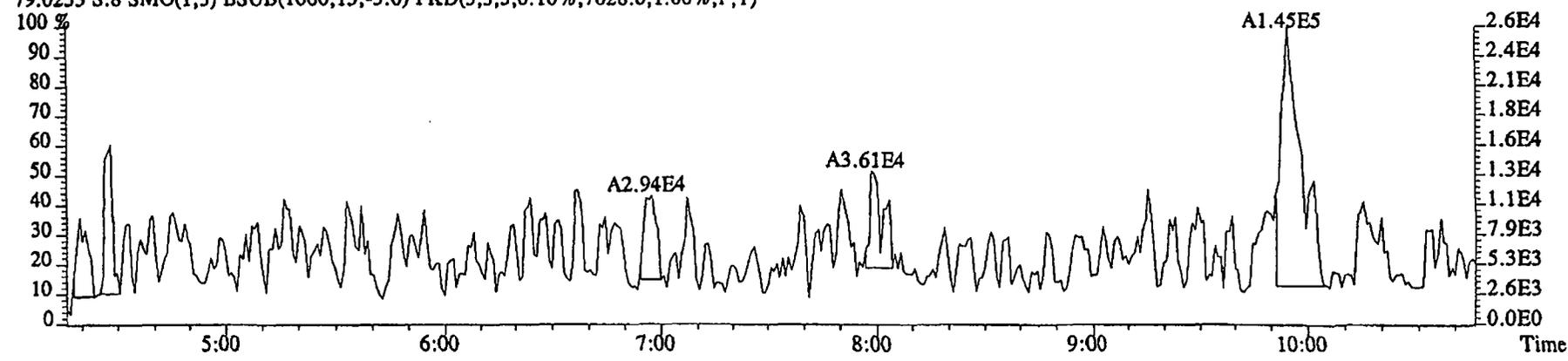
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 00:23:20 GC EI+ Voltage SIR 70SE  
Sample#8 Text:SB1203A :Solvent Blank DCM Exp:NDMAVOA  
75.0002 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64276.0,1.00%,F,T)



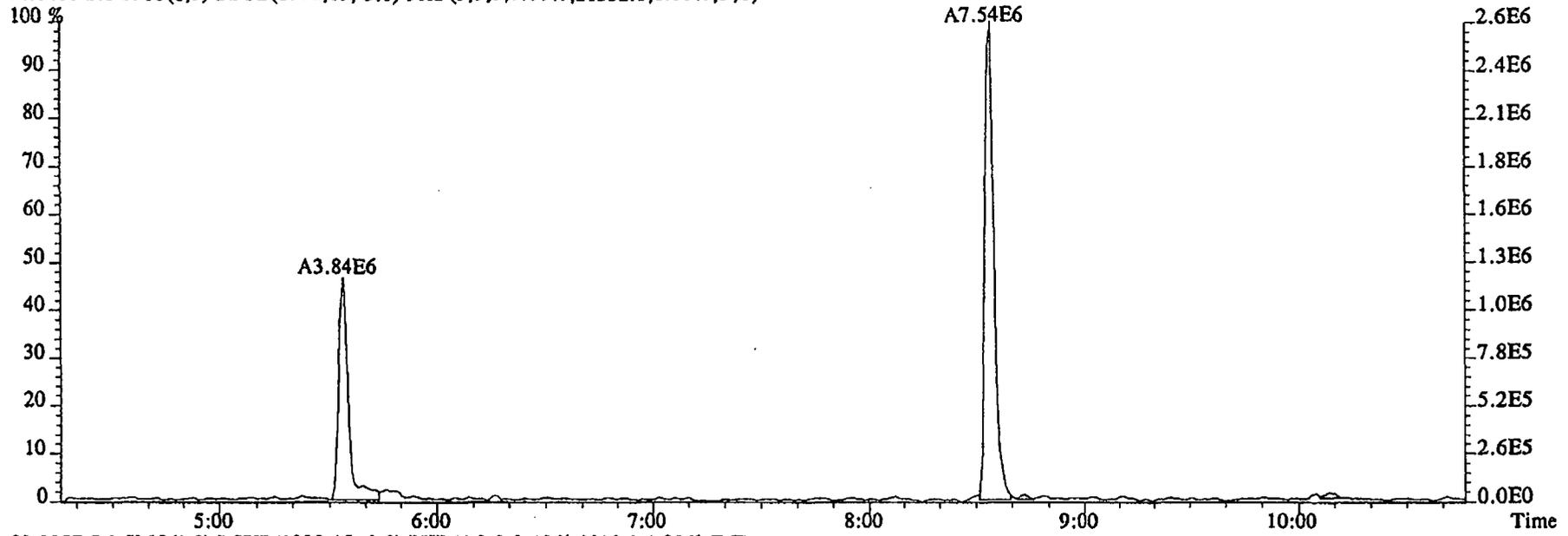
76.9972 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9384.0,1.00%,F,T)



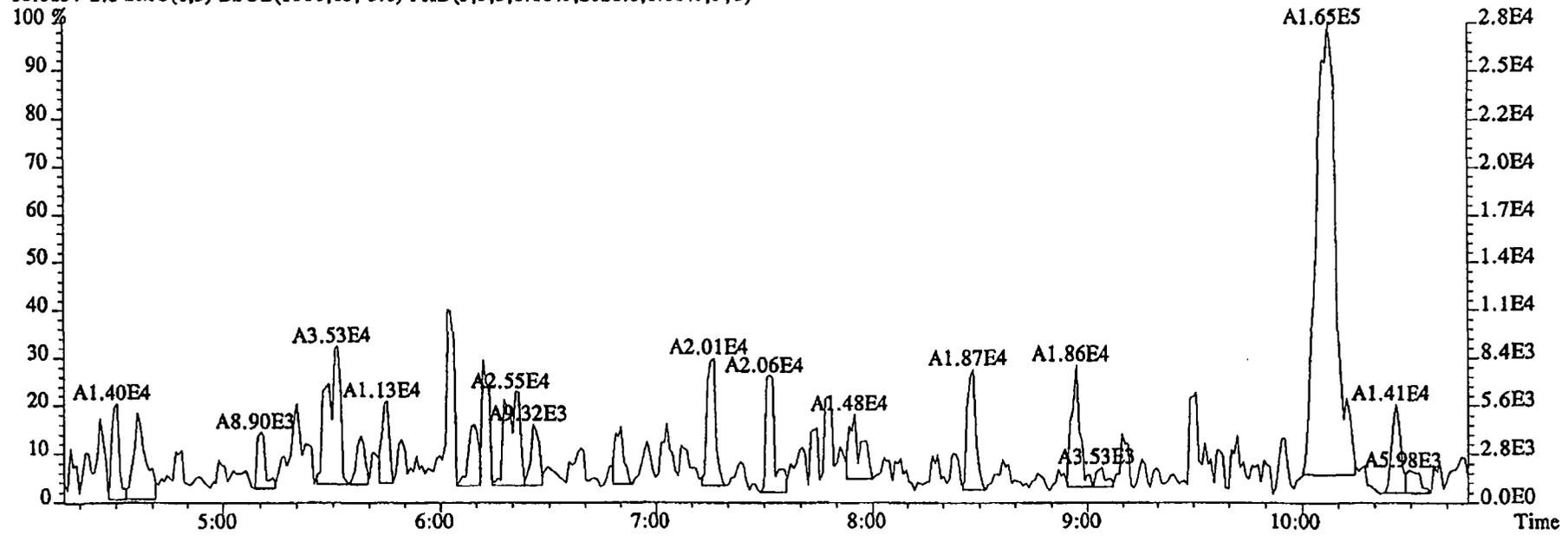
79.0253 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7628.0,1.00%,F,T)



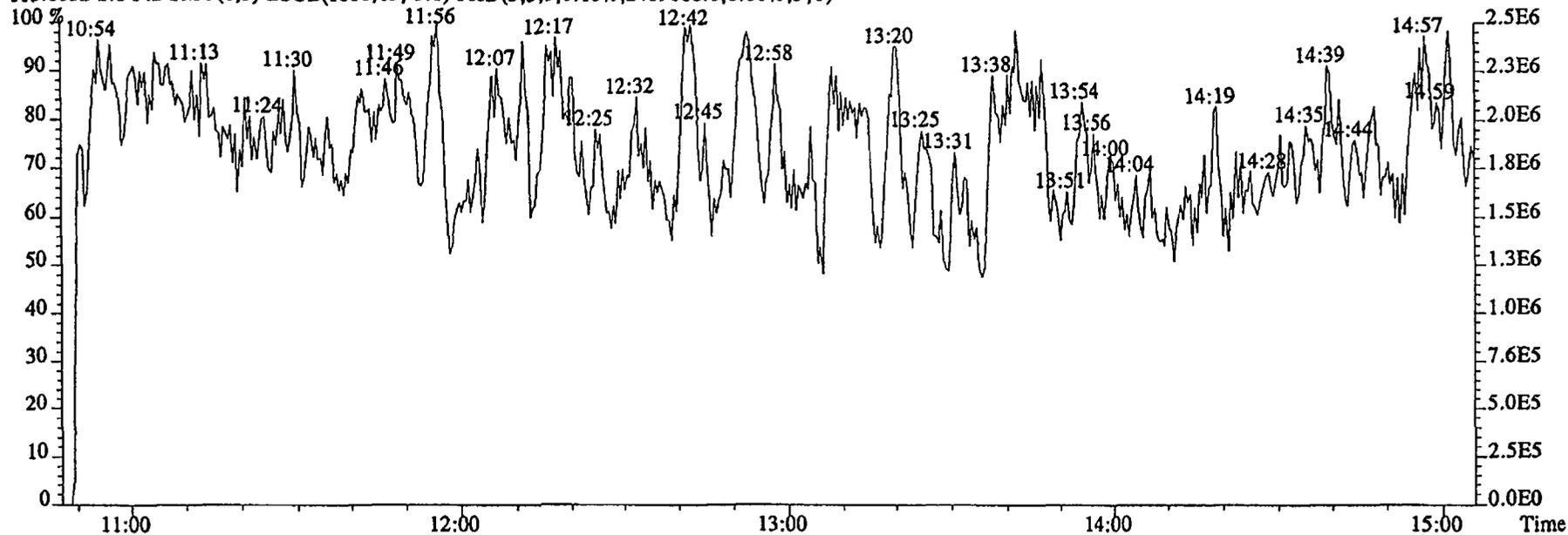
File:03DE04BSSP #1-481 Acq: 4-DEC-2004 00:23:20 GC EI+ Voltage SIR 70SE  
Sample#8 Text:SB1203A :Solvent Blank DCM Exp:NDMAVOA  
74.0480 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21332.0,1.00%,F,T)



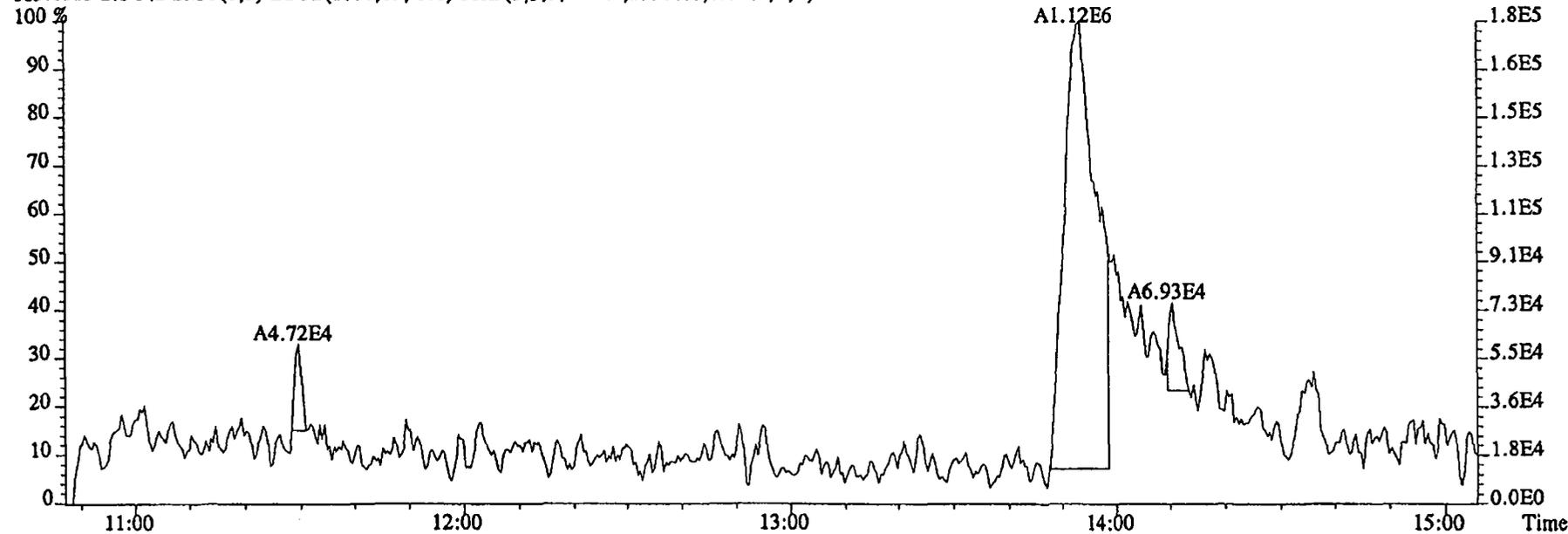
80.0857 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2020.0,1.00%,F,T)



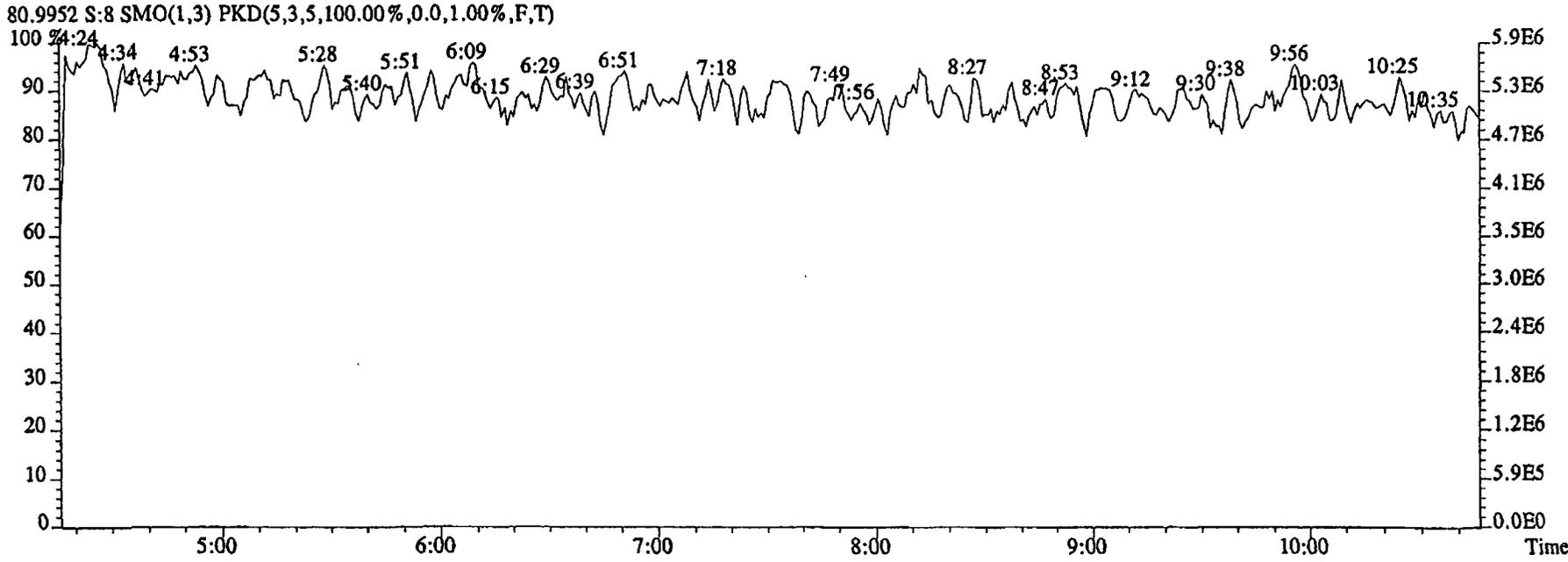
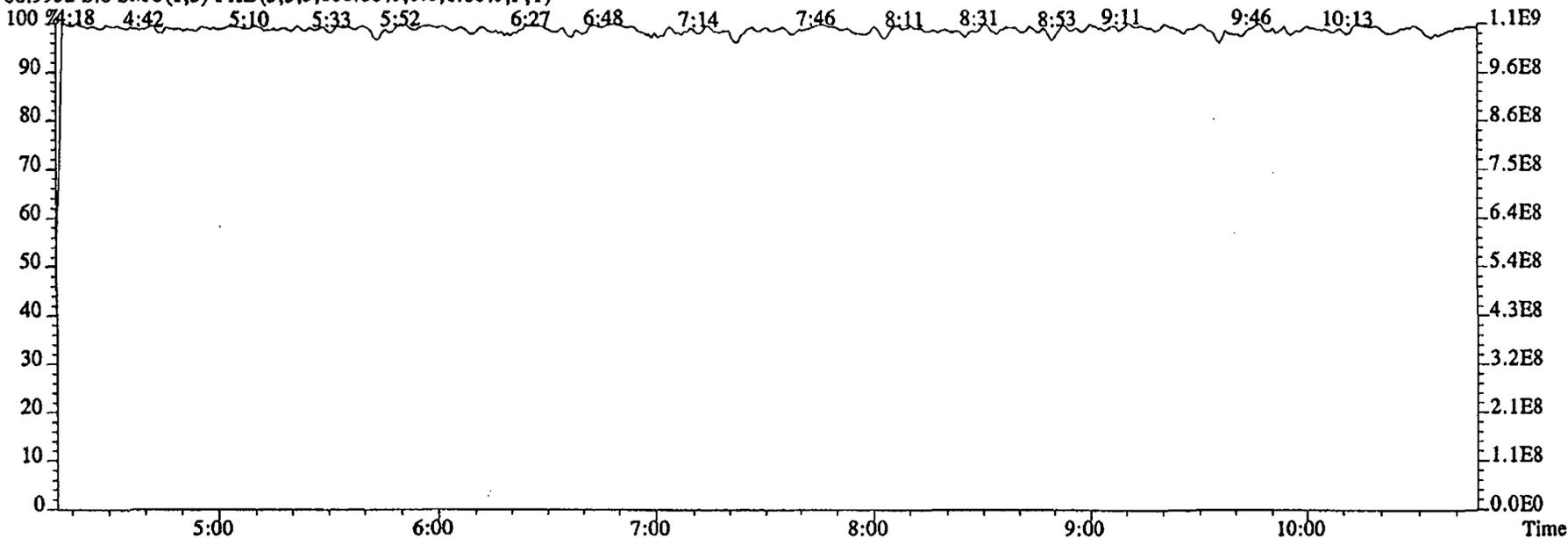
File:03DE04B5SP #1-602 Acq: 4-DEC-2004 00:23:20 GC EI+ Voltage SIR 70SE  
Sample#8 Text:SB1203A :Solvent Blank DCM Exp:NDMAVOA  
113.0032 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2419668.0,1.00%,F,T)



115.0003 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25560.0,1.00%,F,T)



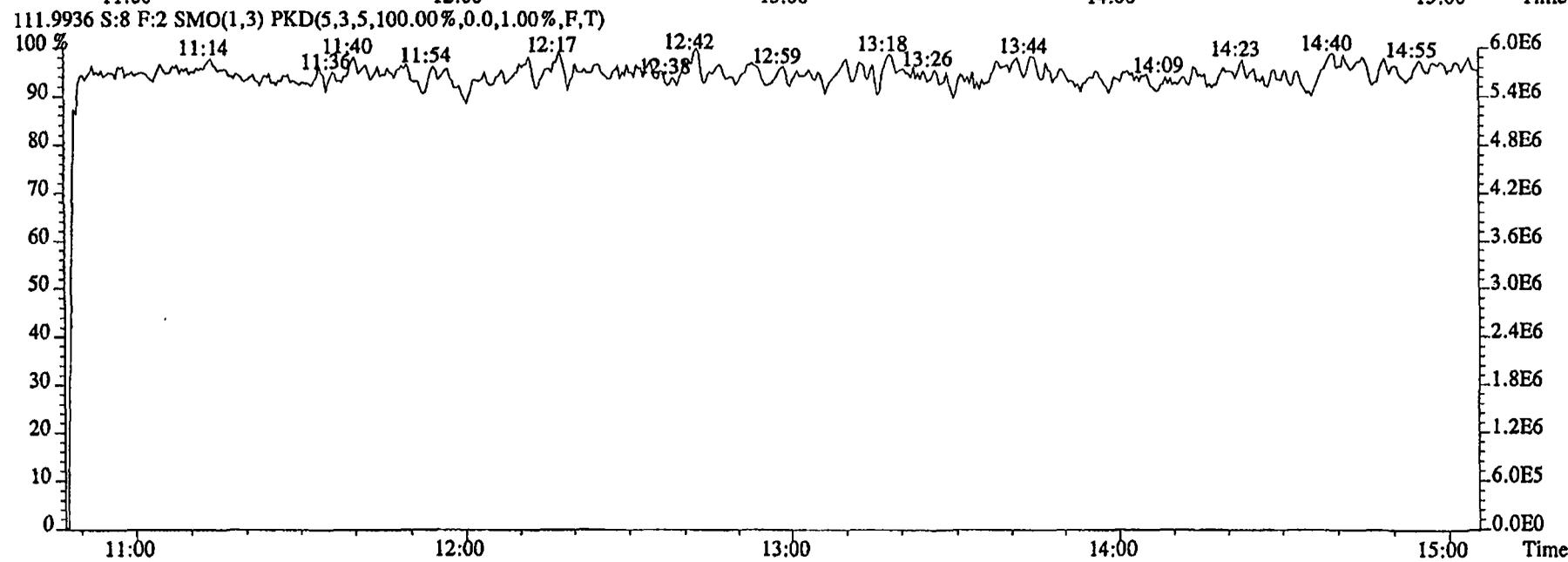
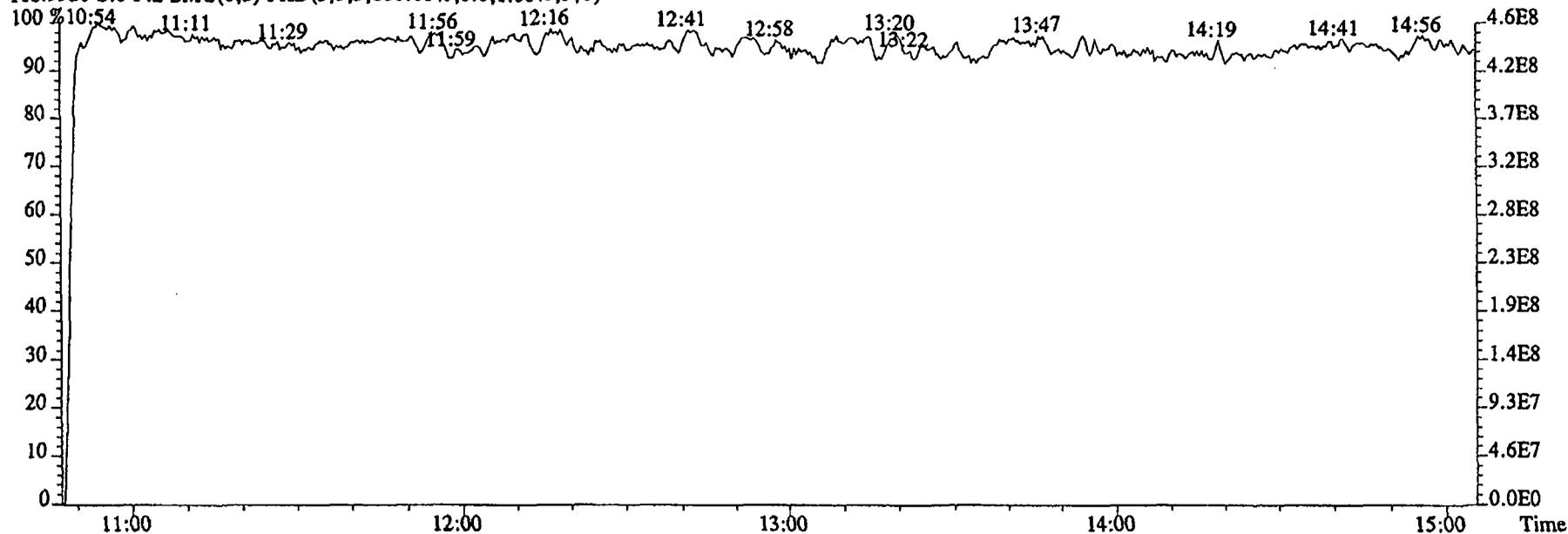
File:03DE04B5SP #1-481 Acq: 4-DEC-2004 00:23:20 GC EI+ Voltage SIR 70SE  
Sample#8 Text:SB1203A :Solvent Blank DCM Exp:NDMAVOA  
68.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-602 Acq: 4-DEC-2004 00:23:20 GC EI+ Voltage SIR 70SE

Sample#8 Text:SB1203A :Solvent Blank DCM Exp:NDMAVOA

118.9920 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



# **Initial Calibration**

***Includes (as applicable):***

***runlog***

***standard raw data***

***statistical summary***

***ms tune data***

**Initial Calibration Checklist**  
High Resolution

ICAL ID 16251203045SP

Method ID 1625

Column ID SP-2331 Instrument ID 53P

STD ID's ST1203(E, C, G, H, I) STD Solution 2350-68(A-E)

Multiplier Setting 770

Analyzed By AM Date Analyzed 12/03/04

Prepared By MS Date Prepared 12/14/04

Reviewed By C. Mitchell Date Reviewed 12-14-04

ANALYSIS OF ICAL	INITIATED	REVIEWED
Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	N/A	N/A
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Method 8290: %RSD ≤ 20% for natives, ≤ 30% for labeled analytes; S/N ≥ 10  
 Method 1613A: %CV ≤ 35% (See Table 7, Method 1613A); S/N ≥ 10  
 Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N > 2.5  
 PAH: %RSD ≤ 30% for natives and labeled compounds; S/N ≥ 10  
 PCB: %RSD ≤ 20% for natives, ≤ 40% for labeled compounds; S/N ≥ 2.5  
 NCASI 551: %RSD ≤ 20% for natives and labeled compounds; ≥ 5  
 DBD/DBF: %RSD ≤ 30% for natives, ≤ 40% for labeled analytes; S/N ≥ 10

Run: 03DE04B5SPI $\eta$  Analyte: 1625

Cal: 16251203045SP

ST1203E :CS1 2350-68A

ST1203F :CS2 2350-68B

ST1203G :CS3 2350-68C

ST1203H :CS4 2350-68D

ST1203I :CS5 2350-68E

Name	Mean	S. D.	%RSD	03DE04B5SP03DE04B5SP03DE04B5SP03DE04B5SP03DE04B5SP				
				S1 RRF1	S2 RRF2	S3 RRF3	S4 RRF4	S5 RRF5
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	0.987	0.060	6.10 %	1.08	1.01	0.97	0.93	0.95
1,4-Dioxane	1.593	0.108	6.81 %	1.78	1.57	1.51	1.54	1.55
D5-123-TriChloroPropane	4.023	0.096	2.38 %	4.16	3.94	3.99	3.94	4.08
1,2,3-TriChloroPropane	0.391	0.065	16.7 %	0.51	0.36	0.34	0.37	0.37
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	2.487	0.063	2.55 %	2.55	2.44	2.40	2.50	2.54
NDMA	1.102	0.063	5.72 %	1.19	1.02	1.07	1.11	1.13
2-Chloropyridine	-	-	- %	-	-	-	-	-

Run #1    Filename 03DE04B5SP    S: 1    I: 1  
 Acquired: 3-DEC-04    22:01:00    Processed: 3-DEC-04    23:41:48  
 Run: 03DE04B5SPI $\eta$     Analyte: 1625    Cal: 16251203045SP

Comments:

Sample text: ST1203E :CS1 2350-68A

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	46788000		10:57	-	200.00	n
D8-1,4-Dioxane	252841000		5:00	1.08	1000.00	n
1,4-Dioxane	901719		5:00	1.78	2.00	y
D5-123-TriChloroPropane	97396000		9:53	4.16	100.00	n
1,2,3-TriChloroPropane	986770		9:57	0.51	2.00	n
1,2,3-TriChloroPropane	2210320		9:57	-	2.00	n
D6-NDMA	59719000		10:03	2.55	100.00	n
NDMA	1416800		10:03	1.19	2.00	n
2-Chloropyridine	149531000		10:57	-	200.00	n

Run #2    Filename 03DE04B5SP    S: 2    I: 1  
Acquired: 3-DEC-04    22:21:16    Processed: 3-DEC-04    23:41:49  
Run: 03DE04B5SPI7    Analyte: 1625    Cal: 16251203045SP

Comments:

Sample text: ST1203F :CS2 2350-68B

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	47666300		10:58	-	200.00	n
D8-1,4-Dioxane	240633000		5:01	1.01	1000.00	n
1,4-Dioxane	3787140		5:01	1.57	10.00	y
D5-123-TriChloroPropane	94009000		9:53	3.94	100.00	n
1,2,3-TriChloroPropane	3398590		9:57	0.36	10.00	n
1,2,3-TriChloroPropane	10485300		9:57	-	10.00	n
D6-NDMA	58254500		10:04	2.44	100.00	n
NDMA	5929430		10:03	1.02	10.00	n
2-Chloropyridine	155015000		10:58	-	200.00	n

Run #3 Filename 03DE04B5SP S: 3 I: 1  
 Acquired: 3-DEC-04 22:41:34 Processed: 3-DEC-04 23:41:49  
 Run: 03DE04B5SPI Analyte: 1625 Cal: 16251203045SP

Comments:

Sample text: ST1203G :CS3 2350-68C

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	86387800		10:57	-	200.00	n
D8-1,4-Dioxane	417278000		5:01	0.97	1000.00	n
1,4-Dioxane	31594700		5:01	1.51	50.00	n
D5-123-TriChloroPropane	172144000		9:54	3.99	100.00	n
1,2,3-TriChloroPropane	29650400		9:57	0.34	50.00	n
1,2,3-TriChloroPropane	94322500		9:57	-	50.00	n
D6-NDMA	103726000		10:03	2.40	100.00	n
NDMA	55459800		10:03	1.07	50.00	n
2-Chloropyridine	274504000		10:57	-	200.00	n

Run #4    Filename 03DE04B5SP    S: 4    I: 1  
 Acquired: 3-DEC-04    23:01:55    Processed: 3-DEC-04    23:41:49  
 Run: 03DE04B5SPIη    Analyte: 1625    Cal: 16251203045SP

Comments:

Sample text: ST1203H :CS4 2350-68D

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	55931200		10:57	-	200.00	n
D8-1,4-Dioxane	259557000		5:01	0.93	1000.00	n
1,4-Dioxane	80174800		5:01	1.54	200.00	n
D5-123-TriChloroPropane	110278000		9:53	3.94	100.00	n
1,2,3-TriChloroPropane	81901200		9:57	0.37	200.00	n
1,2,3-TriChloroPropane	262872000		9:57	-	200.00	n
D6-NDMA	69993400		10:04	2.50	100.00	n
NDMA	155030000		10:03	1.11	200.00	n
2-Chloropyridine	180222000		10:57	-	200.00	n

Run #5    Filename 03DE04B5SP    S: 5    I: 1  
 Acquired: 3-DEC-04    23:22:17    Processed: 3-DEC-04    23:41:50  
 Run: 03DE04B5SPI7    Analyte: 1625    Cal: 16251203045SP  
 Comments:

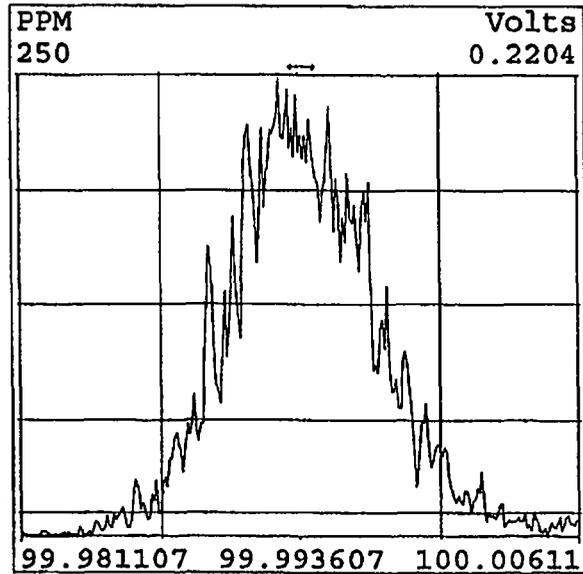
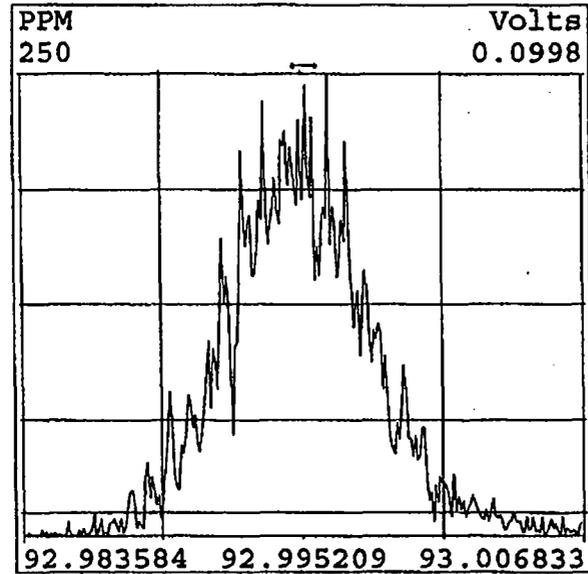
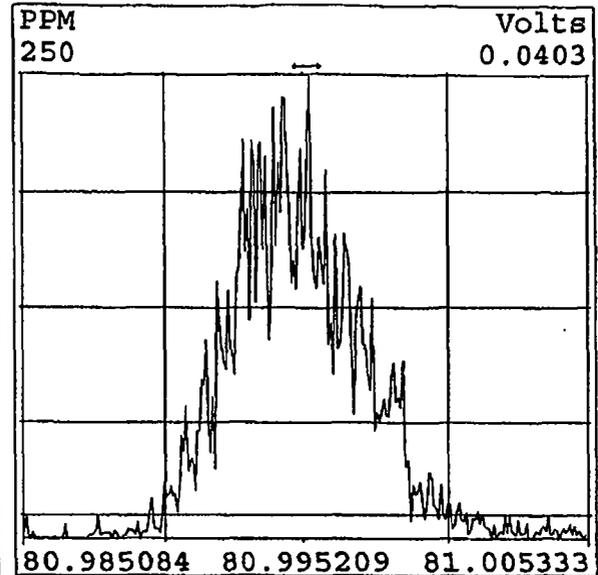
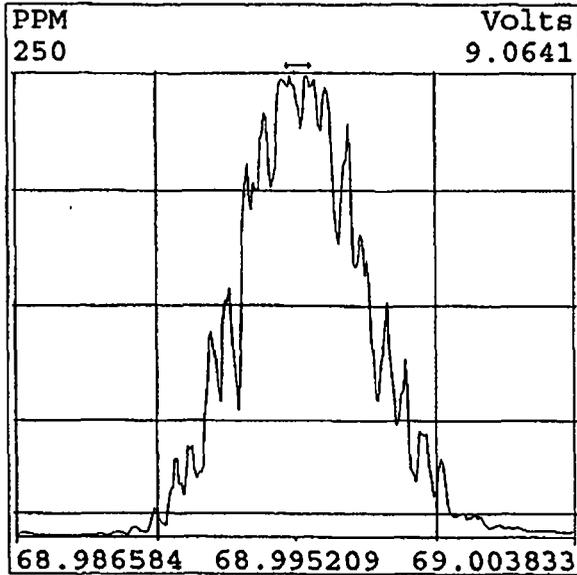
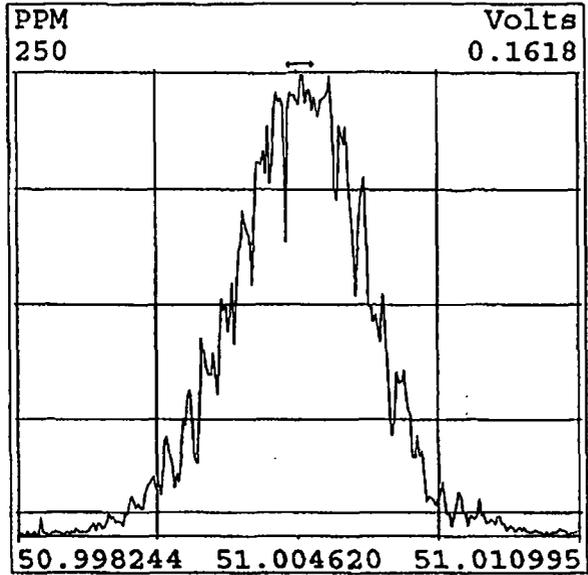
Sample text: ST1203I :CS5 2350-68E

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	63750700		10:57	-	200.00	n
D8-1,4-Dioxane	303182000		5:00	0.95	1000.00	n
1,4-Dioxane	469667000		5:01	1.55	1000.00	n
D5-123-TriChloroPropane	129998000		9:53	4.08	100.00	n
1,2,3-TriChloroPropane	484148000		9:57	0.37	1000.00	n
1,2,3-TriChloroPropane	1524670000		9:57	-	1000.00	n
D6-NDMA	80833700		10:03	2.54	100.00	n
NDMA	910862000		10:03	1.13	1000.00	n
2-Chloropyridine	200984000		10:57	-	200.00	n

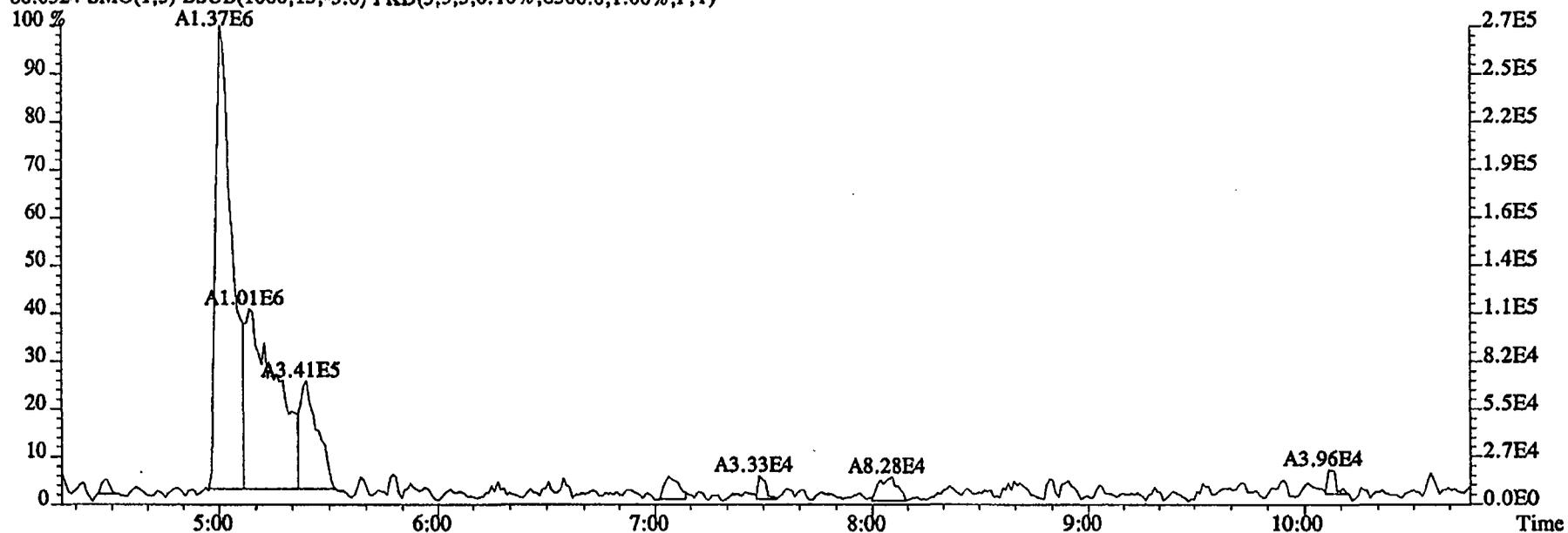
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03DE04B5SP	2	ST1203F	CS2 2350-68B				1.000	
03DE04B5SP	3	ST1203G	CS3 2350-68C				1.000	
03DE04B5SP	4	ST1203H	CS4 2350-68D				1.000	
03DE04B5SP	5	ST1203I	CS5 2350-68E				1.000	
03DE04B5SP	6	SB1203	Solvent Blank DCM				1.000	
03DE04B5SP	7	ST1203J	CS3 2350-68C				1.000	
03DE04B5SP	8	SB1203A	Solvent Blank DCM				1.000	
03DE04B5SP	9	GX8C2-1-AAB	G4L010311-1MB	500	1625/WATER	VS51	1.000	L
03DE04B5SP	10	GX8C2-1-ACC	G4L010311-1LCS	500	1625/WATER		1.000	L
03DE04B5SP	11	GX3LR-1-AA	G4L010311-1	500	1625/WATER		0.940	L
03DE04B5SP	12	GX3LW-1-AC	G4L010311-2	500	1625/WATER		0.979	L
03DE04B5SP	13	GX3LW-1-AFS	G4L010311-2MS	500	1625/WATER		0.990	L
03DE04B5SP	14	GX3LW-1-AGD	G4L010311-2SD	500	1625/WATER		0.917	L
03DE04B5SP	15	GX3L0-1-AC	G4L010311-3	500	1625/WATER		0.985	L
03DE04B5SP	16	GX3L1-1-AC	G4L010311-4	500	1625/WATER		0.933	L
03DE04B5SP	17	GX5HC-1-AA	G4L020252-1	500	1625/WATER		0.962	L
03DE04B5SP	18	GX6EX-1-AC	G4L020335-1	500	1625/WATER		0.988	L
03DE04B5SP	19	GX6FF-1-AC	G4L020335-2	500	1625/WATER		0.980	L
03DE04B5SP	20	GX6FQ-1-AA	G4L020335-3	500	1625/WATER		0.987	L
03DE04B5SP	21	GX6F1-1-AC	G4L020335-4	500	1625/WATER		0.971	L
03DE04B5SP	22	SB1203B	Solvent Blank DCM				1.000	
03DE04B5SP	23	MDLNDMAS-MB	MDL-NDMA-SOIL-MB	500	1625/SOLID	VS51	10.000	g
03DE04B5SP	24	MDLNDMAS-L1	MDL-NDMA-SOIL-LCS1	500	1625/SOLID		10.000	g
03DE04B5SP	25	MDLNDMAS-L2	MDL-NDMA-SOIL-LCS2	500	1625/SOLID		10.000	g
03DE04B5SP	26	MDLNDMAS-L3	MDL-NDMA-SOIL-LCS3	500	1625/SOLID		10.000	g
03DE04B5SP	27	MDLNDMAS-L4	MDL-NDMA-SOIL-LCS4	500	1625/SOLID		10.000	g
03DE04B5SP	28	MDLNDMAS-L5	MDL-NDMA-SOIL-LCS5	500	1625/SOLID		10.000	g
03DE04B5SP	29	MDLNDMAS-L6	MDL-NDMA-SOIL-LCS6	500	1625/SOLID		10.000	g
03DE04B5SP	30	MDLNDMAS-L7	MDL-NDMA-SOIL-LCS7	500	1625/SOLID		10.000	g
03DE04B5SP	31	ST1203K	CS3 2350-68C				1.000	
03DE04B5SP	32						1.000	
03DE04B5SP	33						1.000	
03DE04B5SP	34						1.000	
03DE04B5SP	35						1.000	
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03DE04B5SP	37		AM 12-03-04				1.000	

log file checked  
12-04-04 am

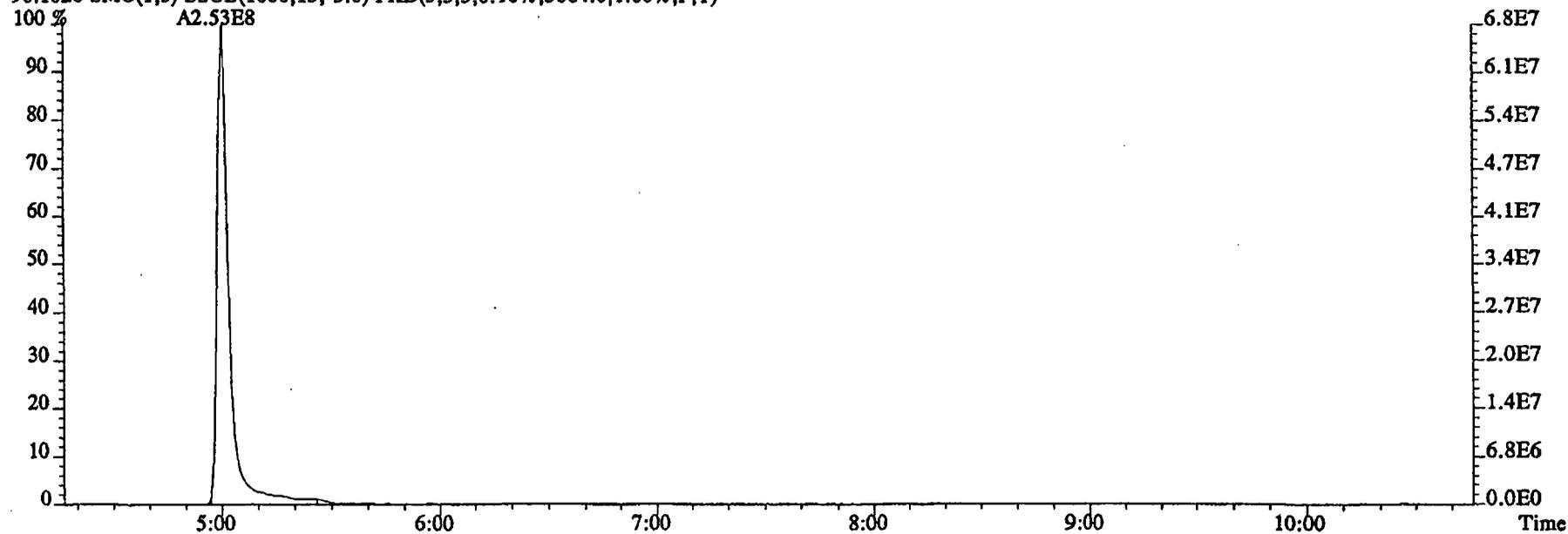
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Experiment:NDMAVOA Function:1 Reference:PFK



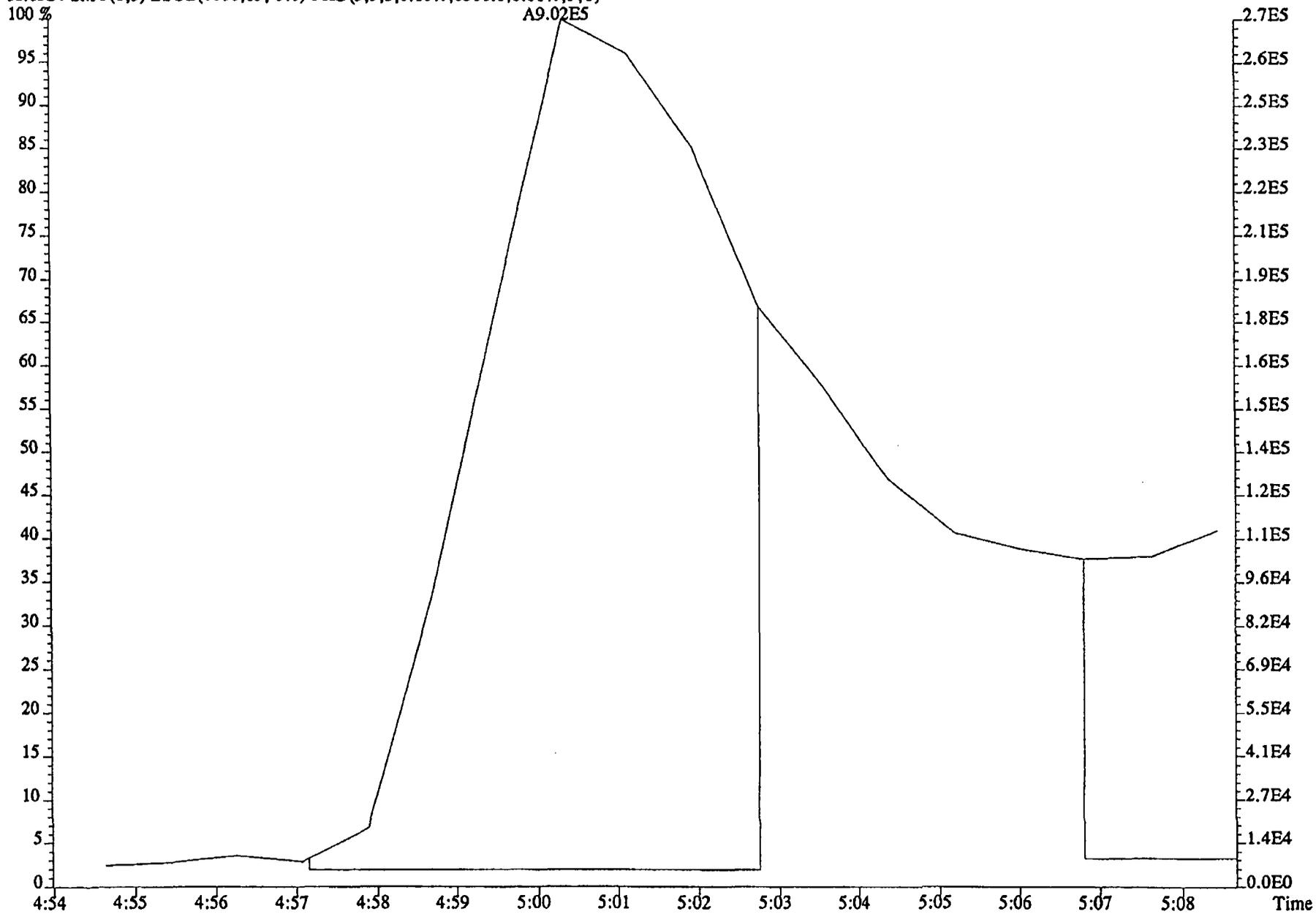
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Sample#1 Text:ST1203E :CS1 2350-68A Exp:NDMAVOA  
88.0524 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8300.0,1.00%,F,T)



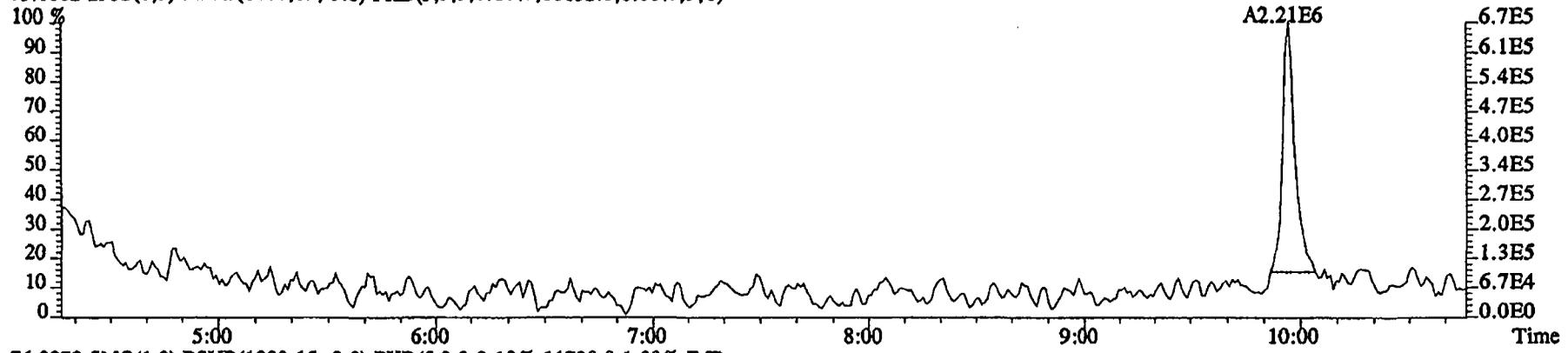
96.1026 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5684.0,1.00%,F,T)



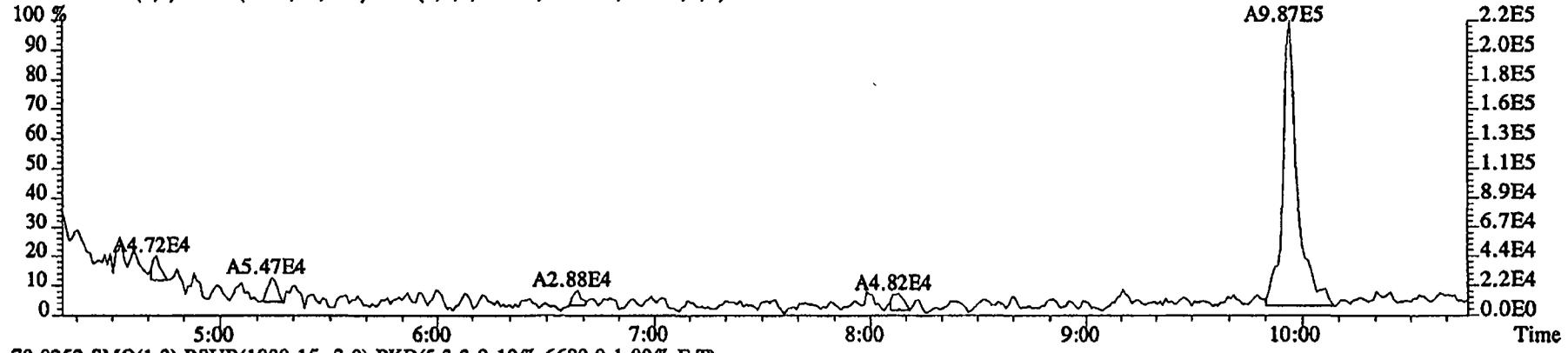
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Sample#1 Text:ST1203E :CS1 2530-68A Exp:NDMAVOA  
88.0524 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8300.0,1.00%,F,T)



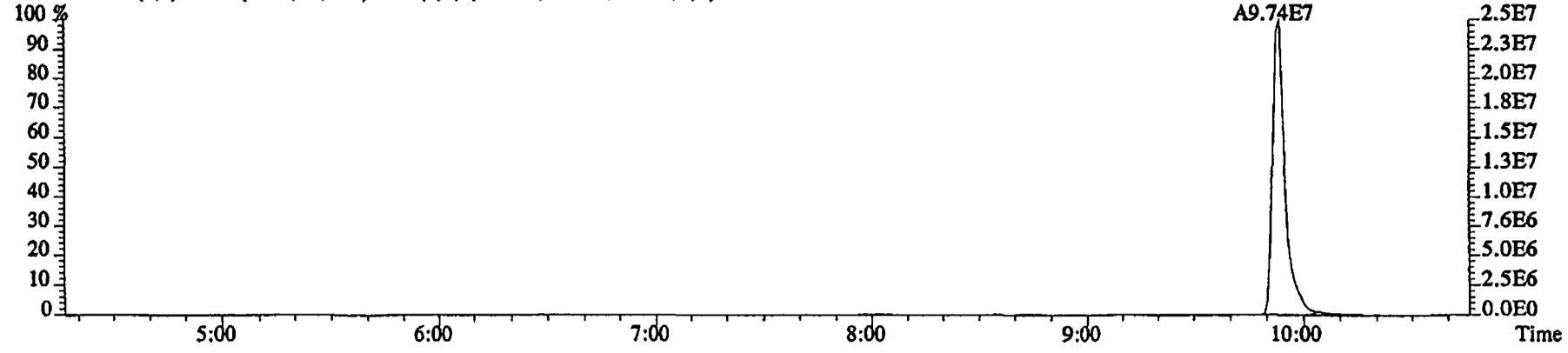
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Sample#1 Text:ST1203E :CS1 2350-68A Exp:NDMAVOA  
75.0002 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80152.0,1.00%,F,T)



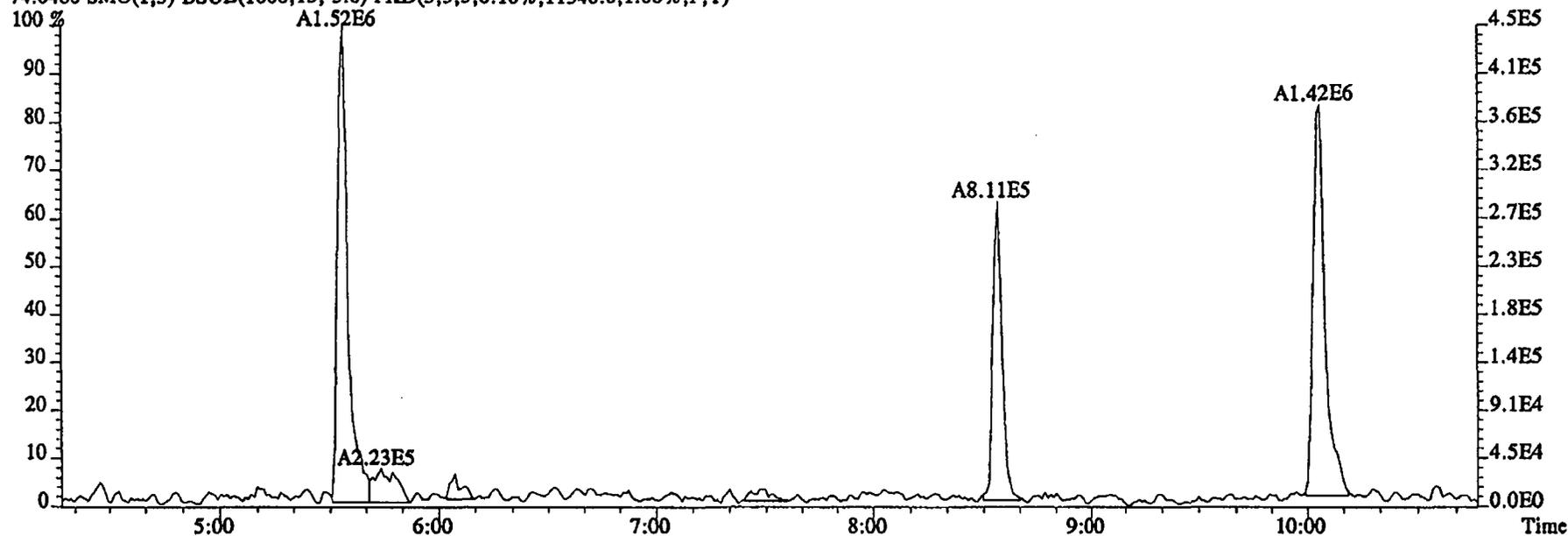
76.9972 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11728.0,1.00%,F,T)



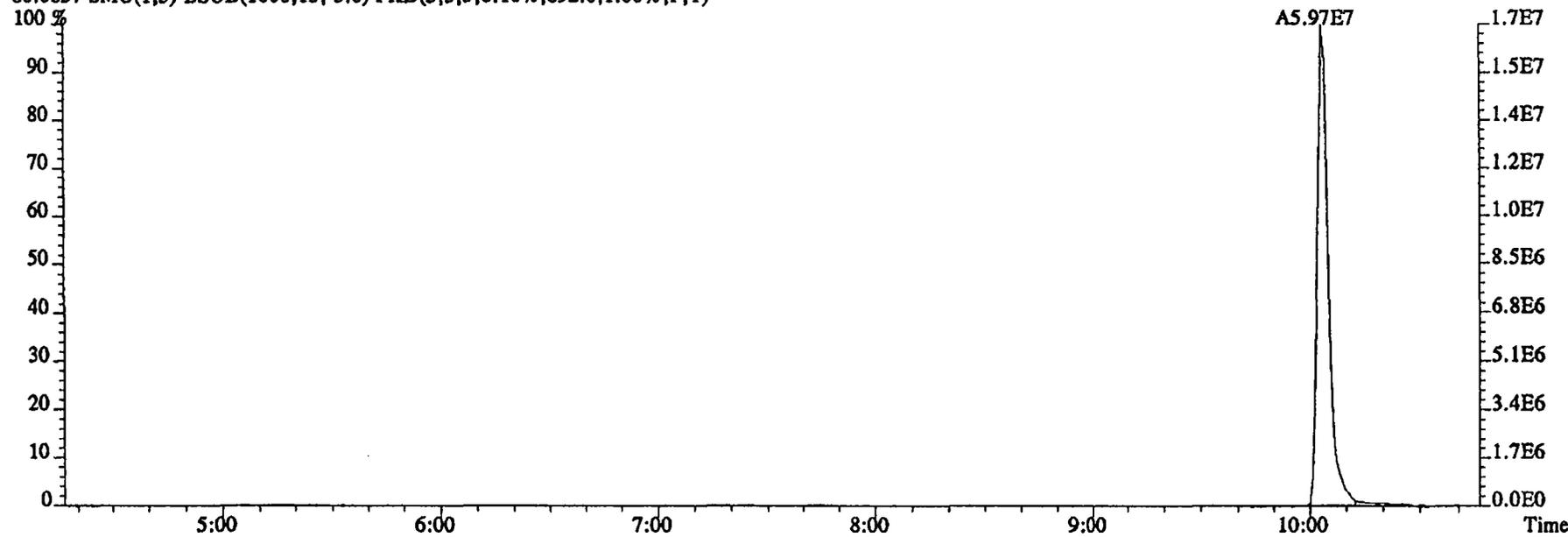
79.0253 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6680.0,1.00%,F,T)



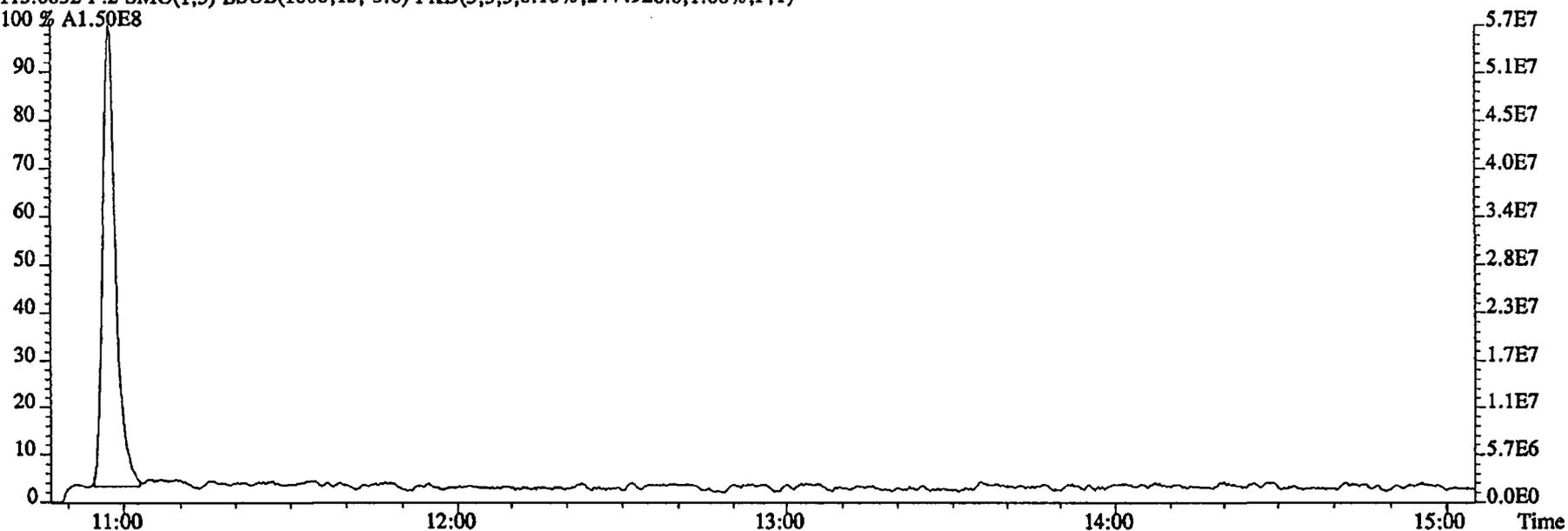
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Sample#1 Text:ST1203E :CS1 2350-68A Exp:NDMAVOA  
74.0480 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11340.0,1.00%,F,T)



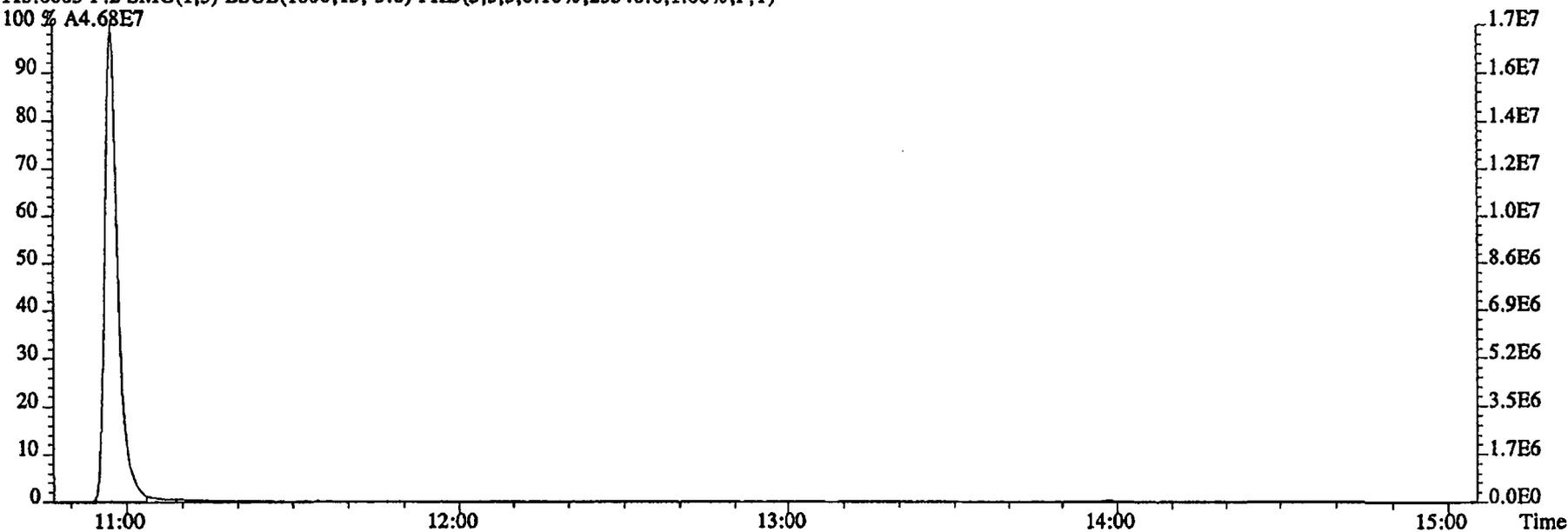
80.0857 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,892.0,1.00%,F,T)



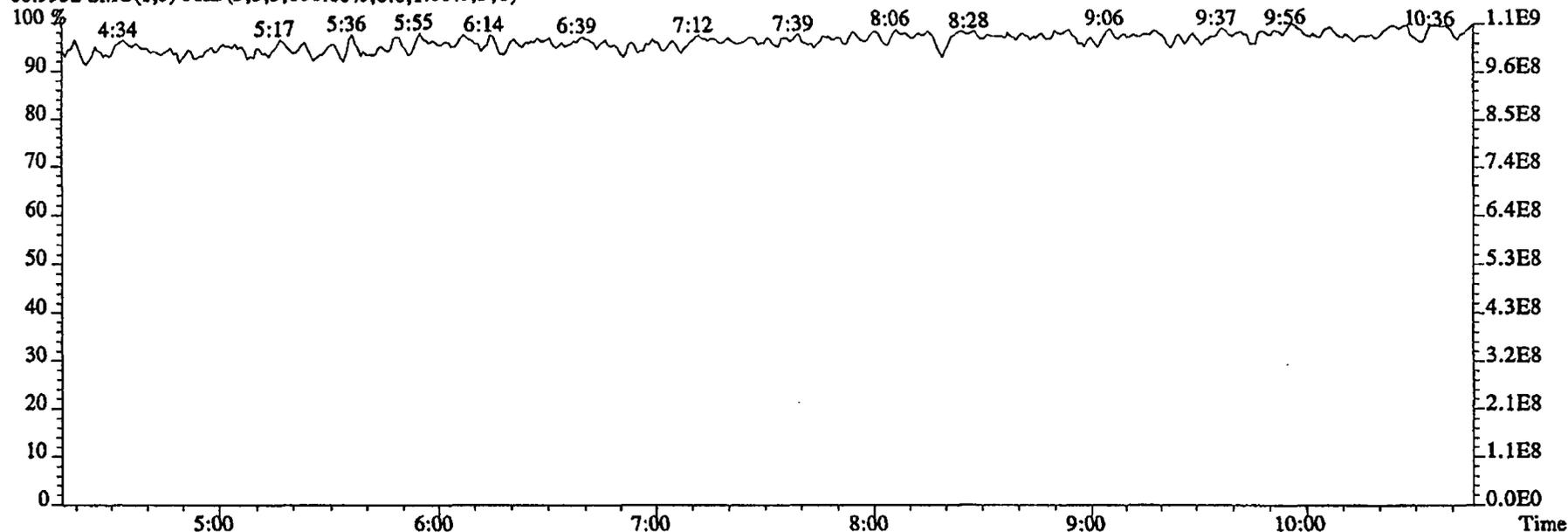
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Sample#1 Text:ST1203E :CS1 2350-68A Exp:NDMAVOA  
113.0032 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2444928.0,1.00%,F,T)  
100 % A1.50E8



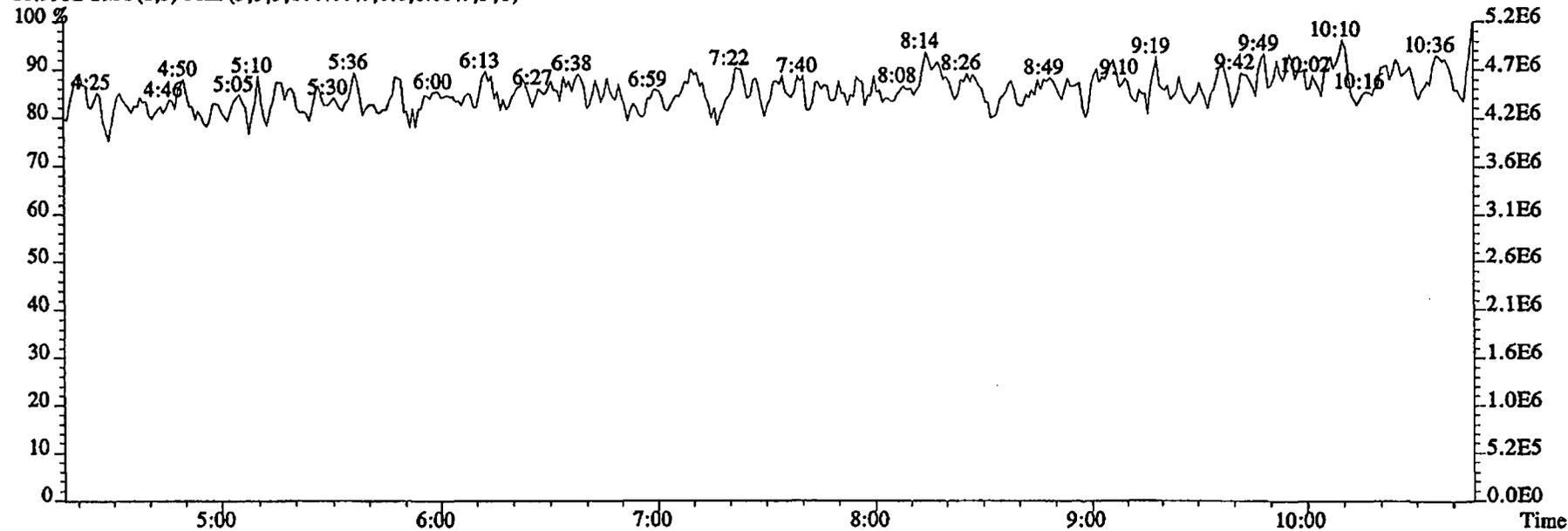
115.0003 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23540.0,1.00%,F,T)  
100 % A4.68E7



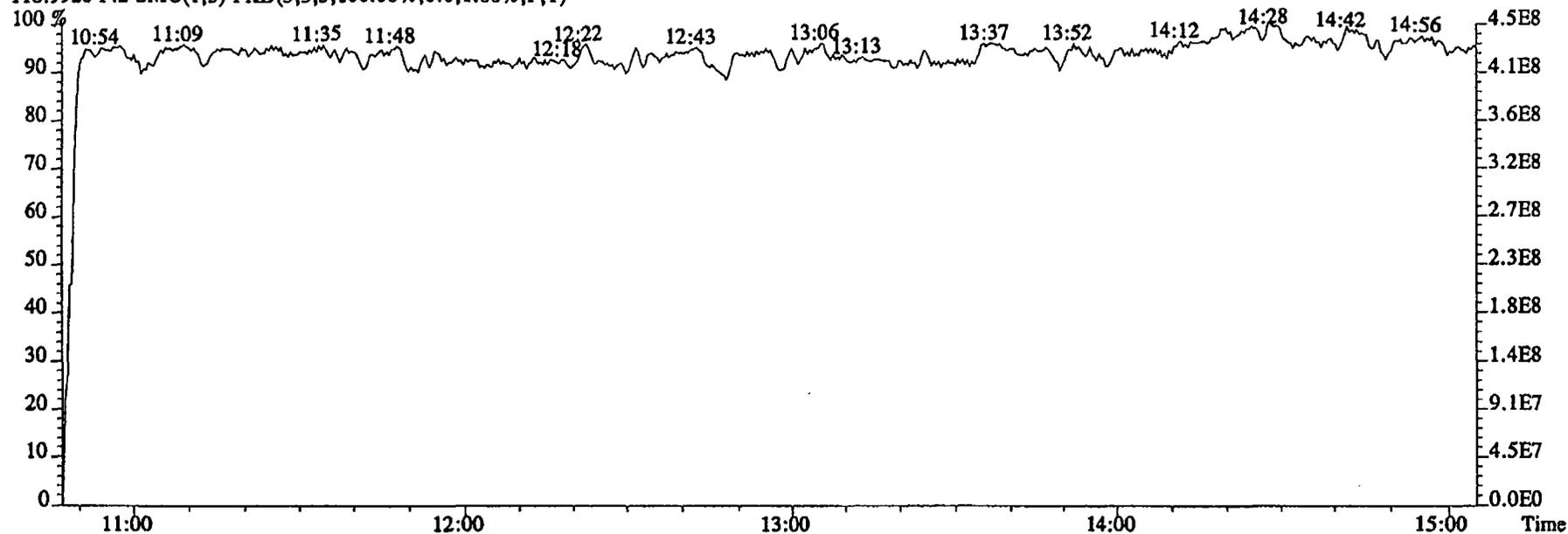
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Sample#1 Text:ST1203E :CS1 2350-68A Exp:NDMAVOA  
68.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



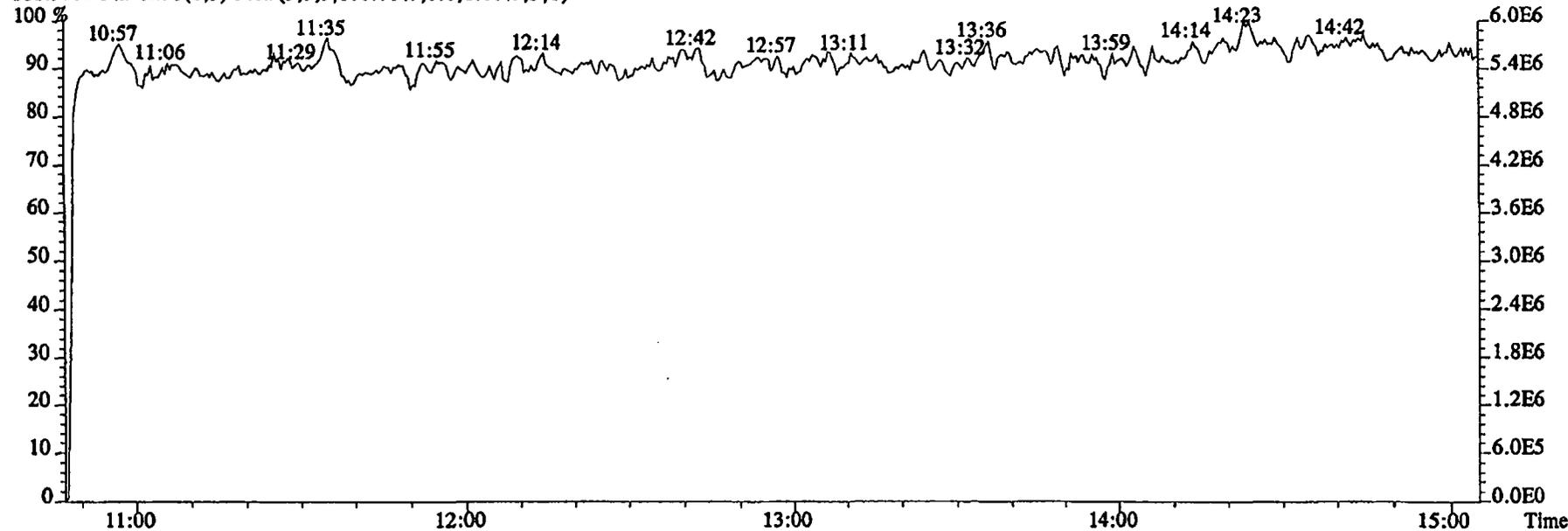
80.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



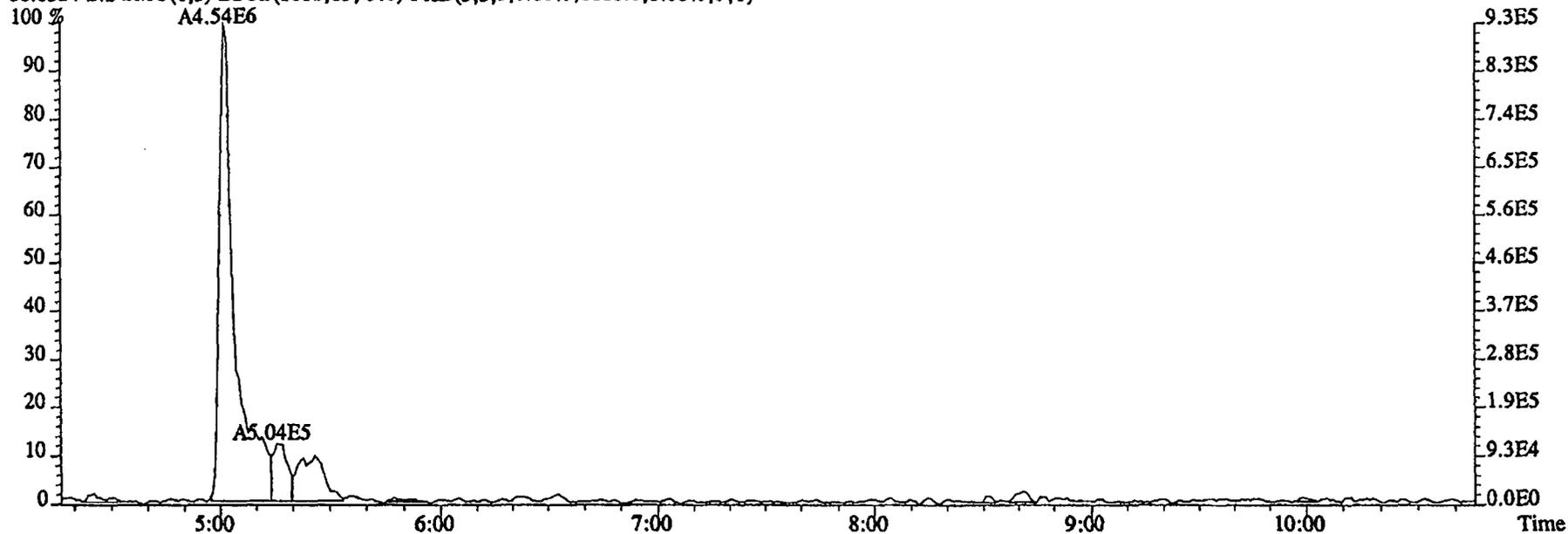
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118.9920 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



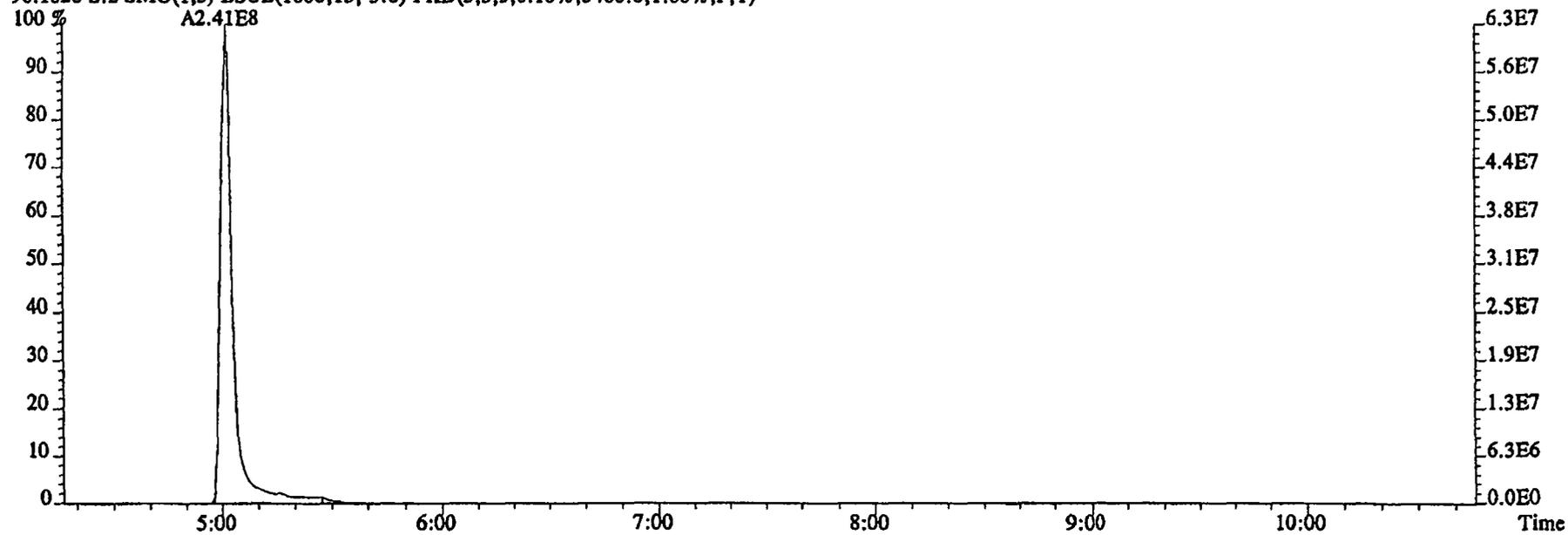
111.9936 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



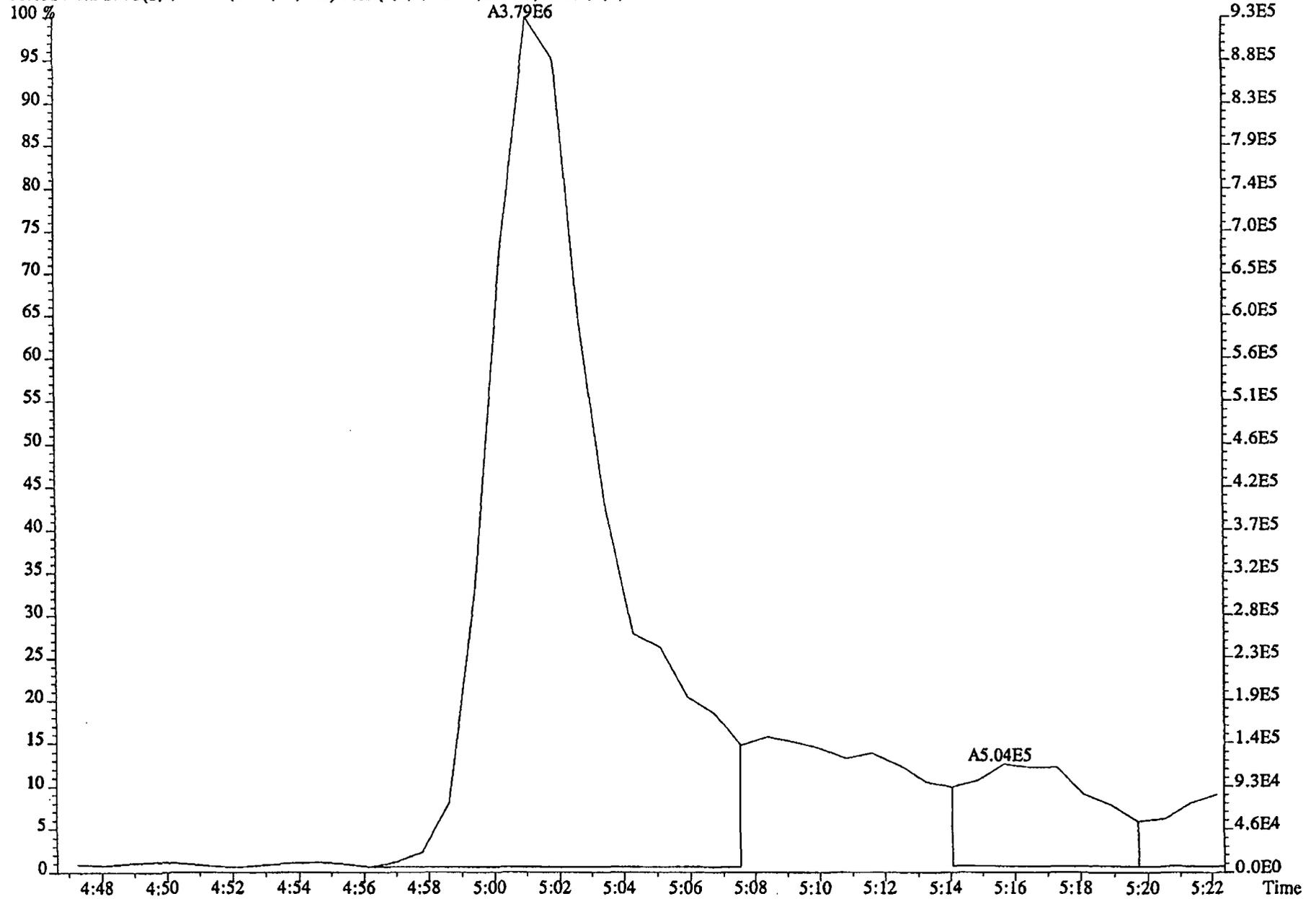
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Sample#2 Text:ST1203F :CS2 2350-68B Exp:NDMAVOA  
88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8680.0,1.00%,F,T)



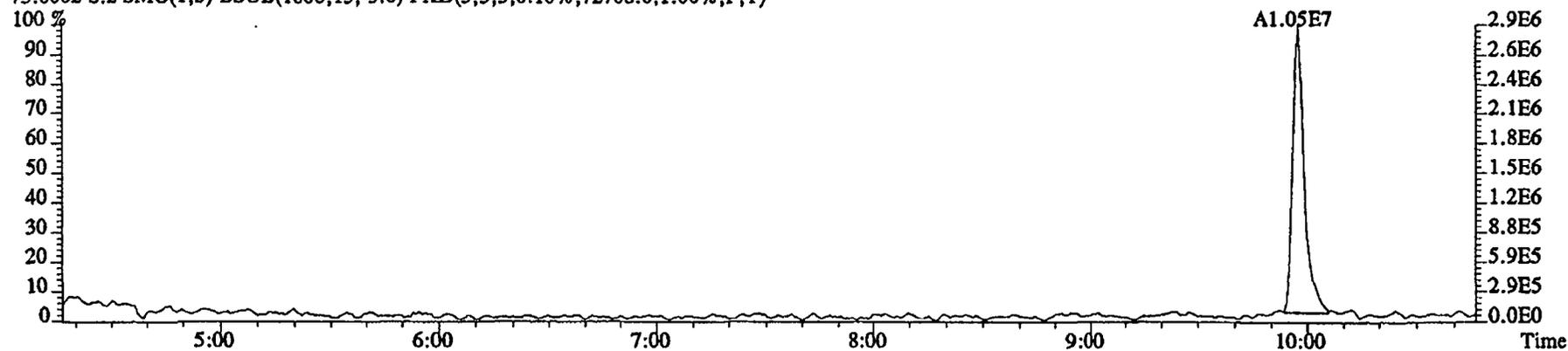
96.1026 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5460.0,1.00%,F,T)



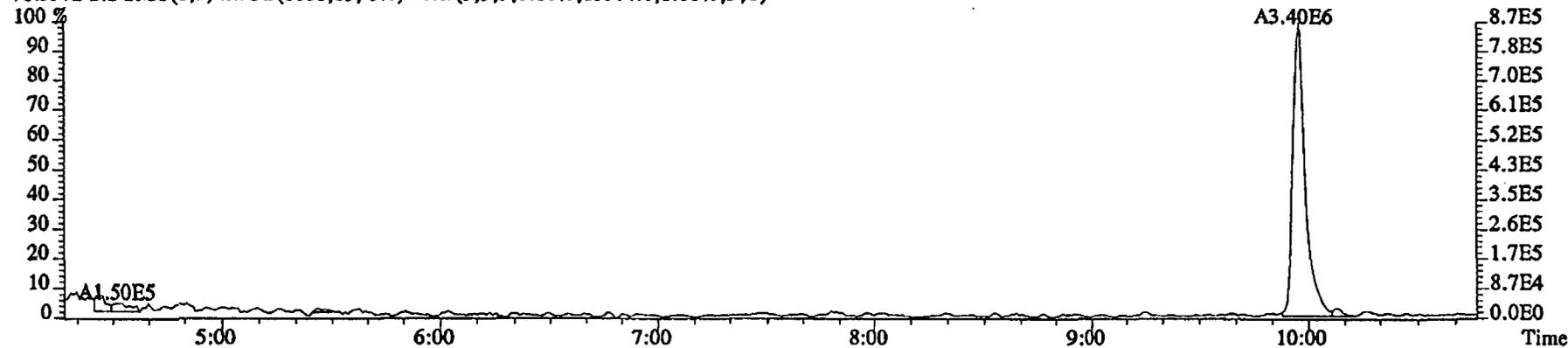
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Sample#2 Text:ST1203F :CS2 2530-68B Exp:NDMAVOA  
88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8680.0,1.00%,F,T)



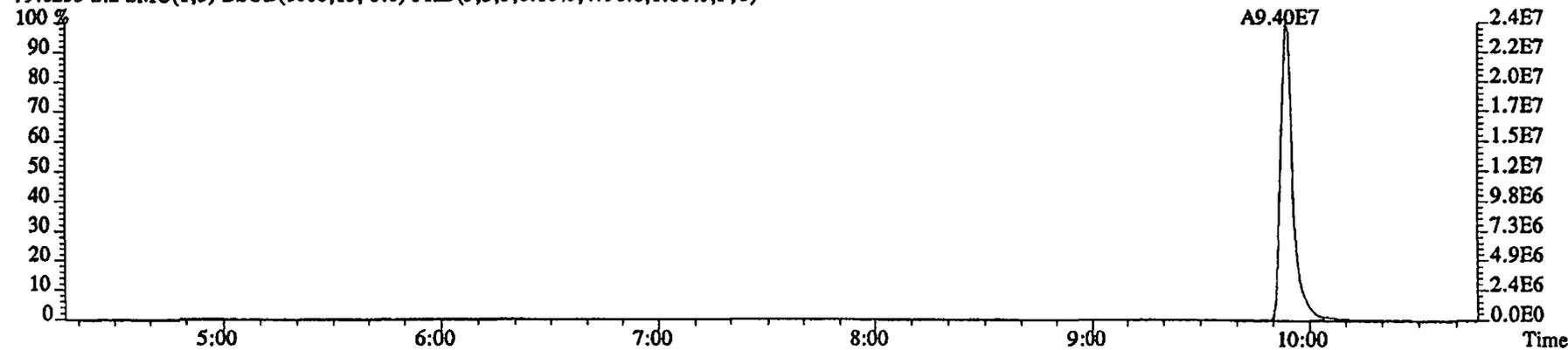
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Sample#2 Text:ST1203F :CS2 2350-68B Exp:NDMAVOA  
75.0002 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72708.0,1.00%,F,T)



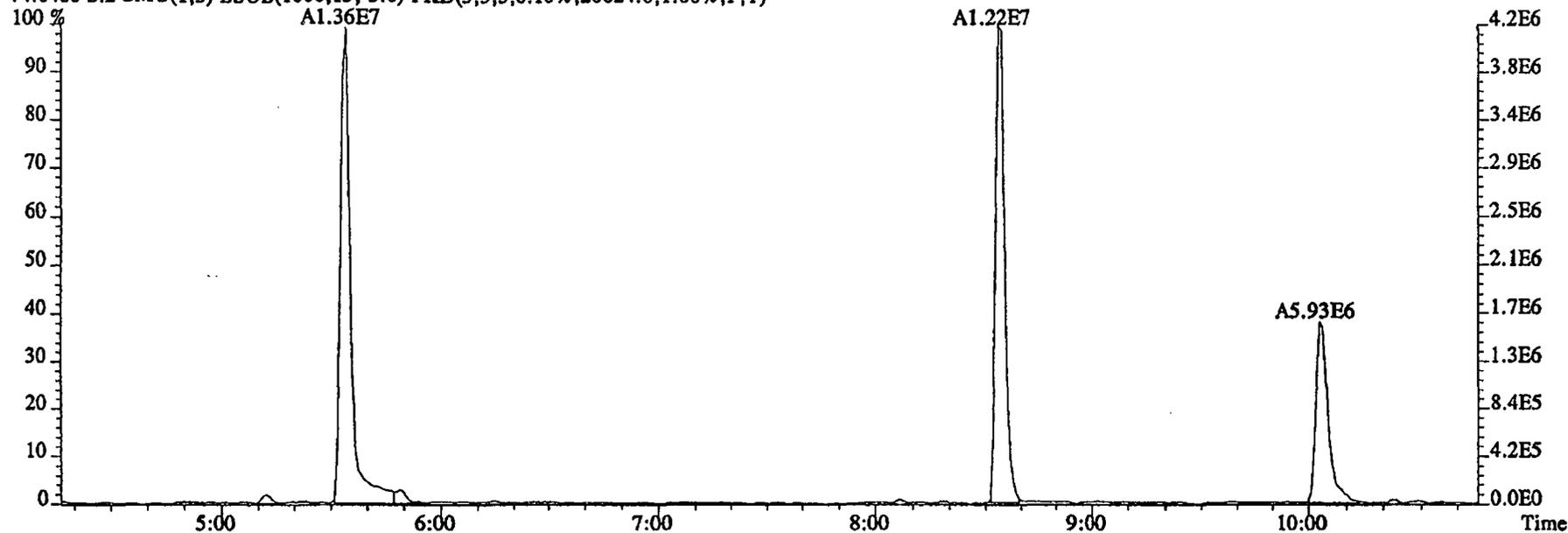
76.9972 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13564.0,1.00%,F,T)



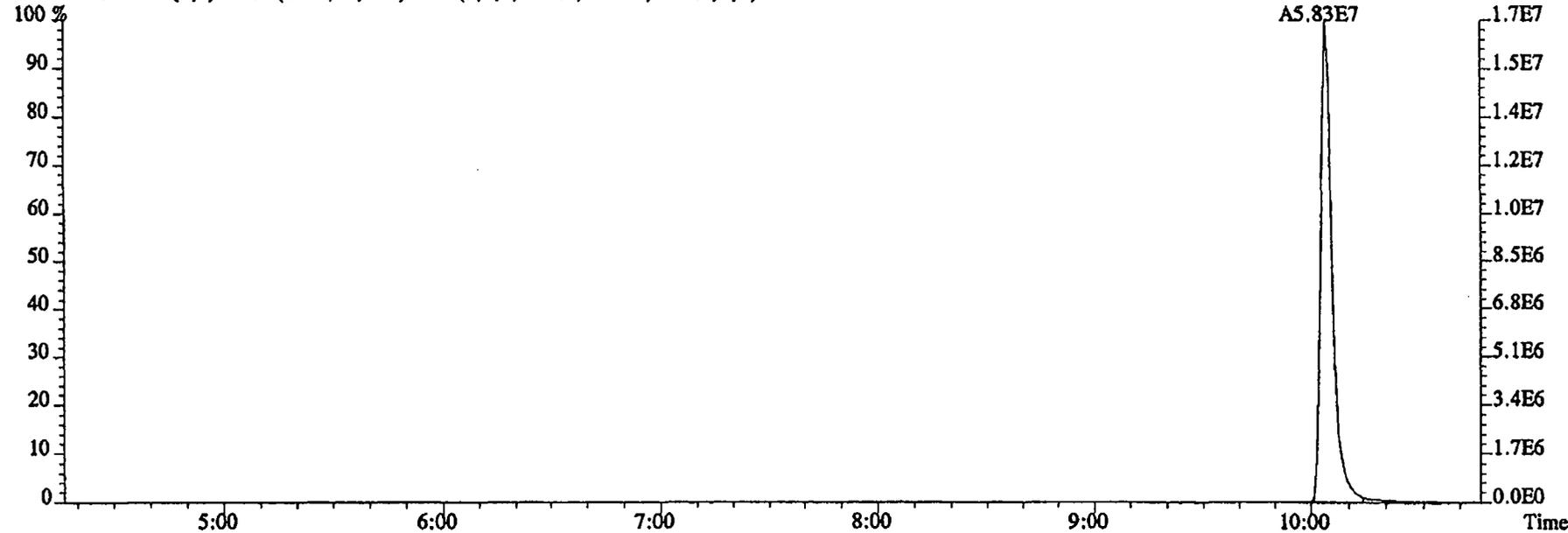
79.0253 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4796.0,1.00%,F,T)



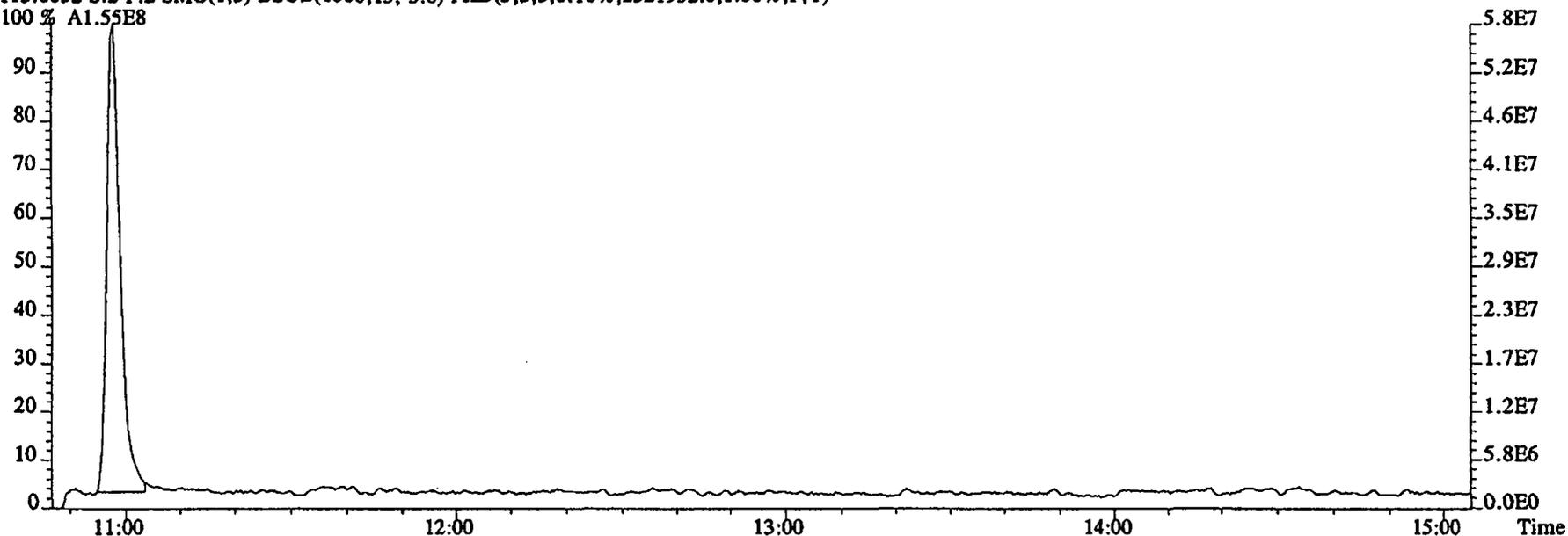
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Sample#2 Text:ST1203F :CS2 2350-68B Exp:NDMAVOA  
74.0480 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20024.0,1.00%,F,T)



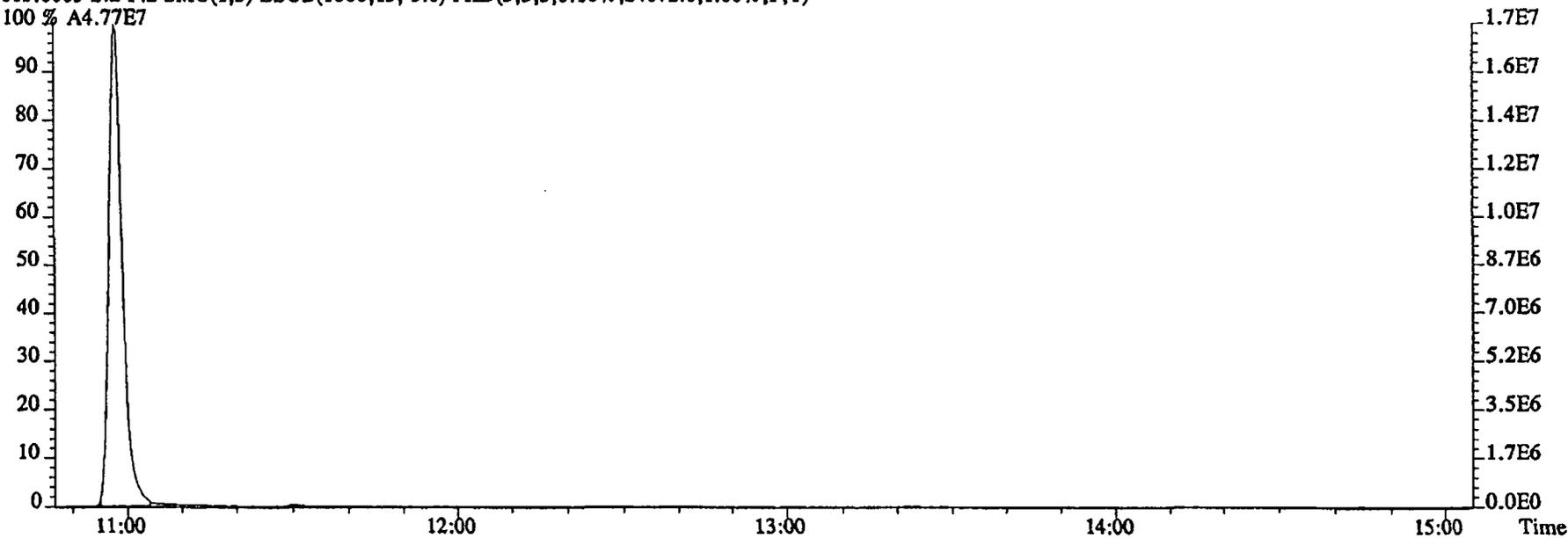
80.0857 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2228.0,1.00%,F,T)



File:03DE04B5SP #1-602 Acq: 3-DEC-2004 22:21:16 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1203F :CS2 2350-68B Exp:NDMAVOA  
113.0032 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2521952.0,1.00%,F,T)  
100 % A1.55E8



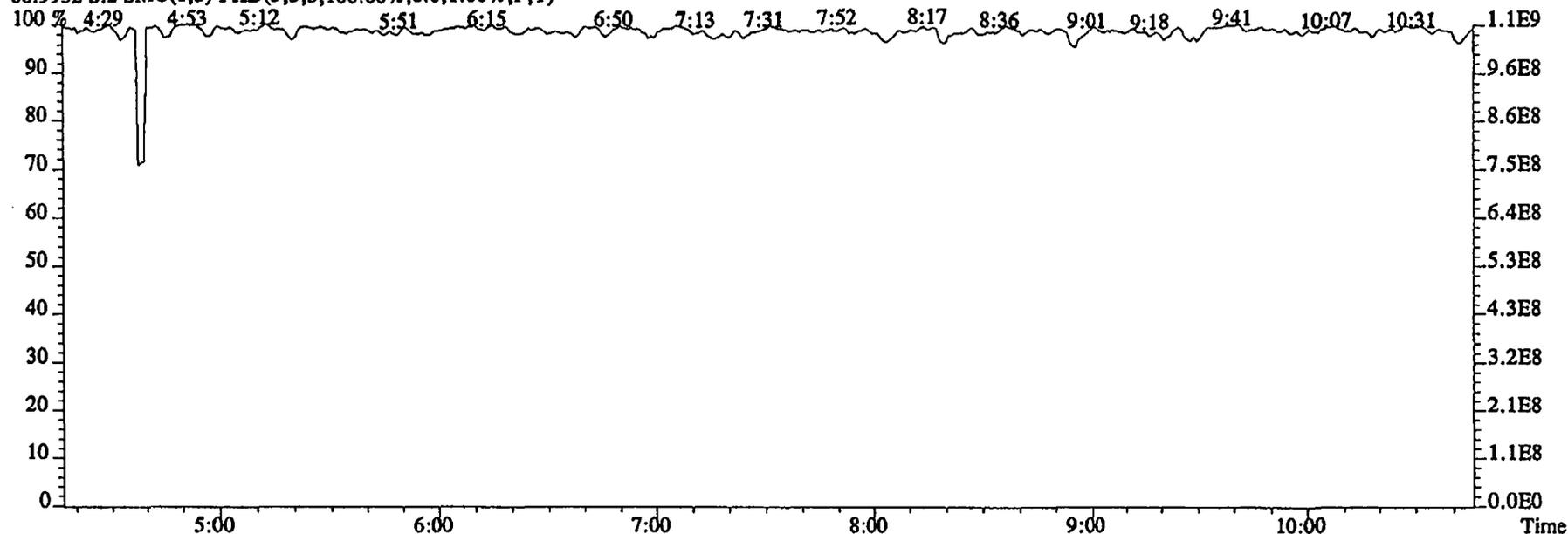
115.0003 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24072.0,1.00%,F,T)  
100 % A4.77E7



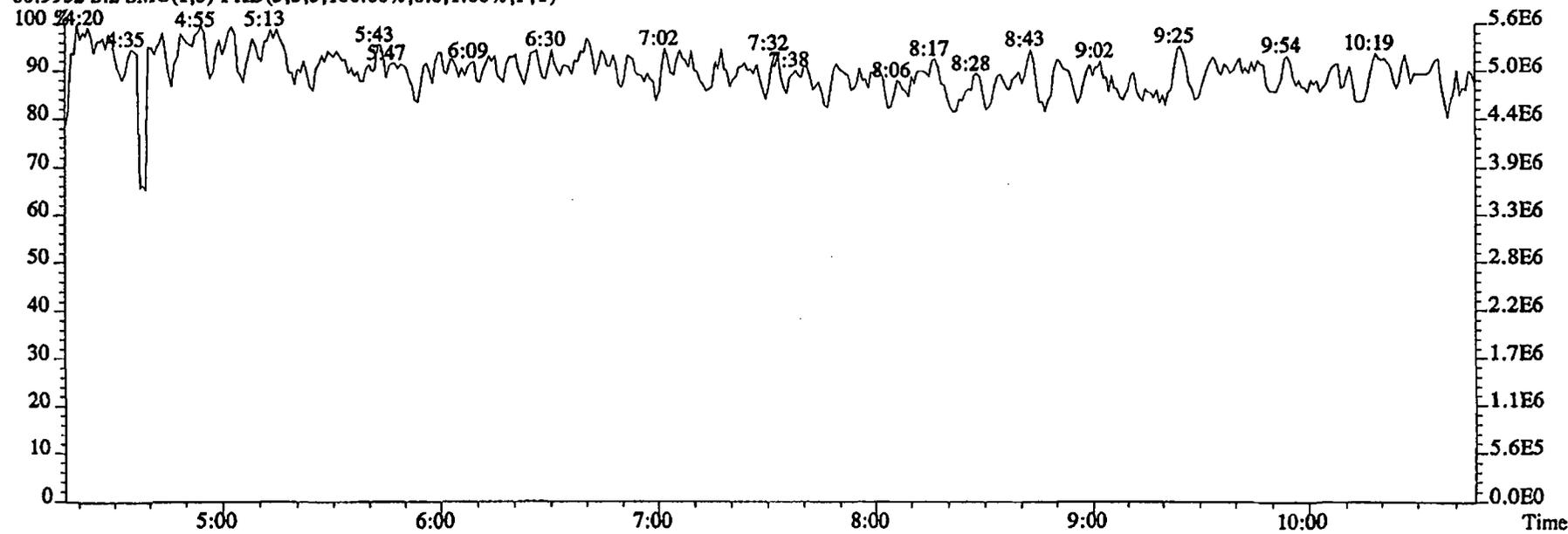
File:03DE04B5SP #1-480 Acq: 3-DEC-2004 22:21:16 GC EI+ Voltage SIR 70SE

Sample#2 Text:ST1203F :CS2 2350-68B Exp:NDMAVOA

68.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



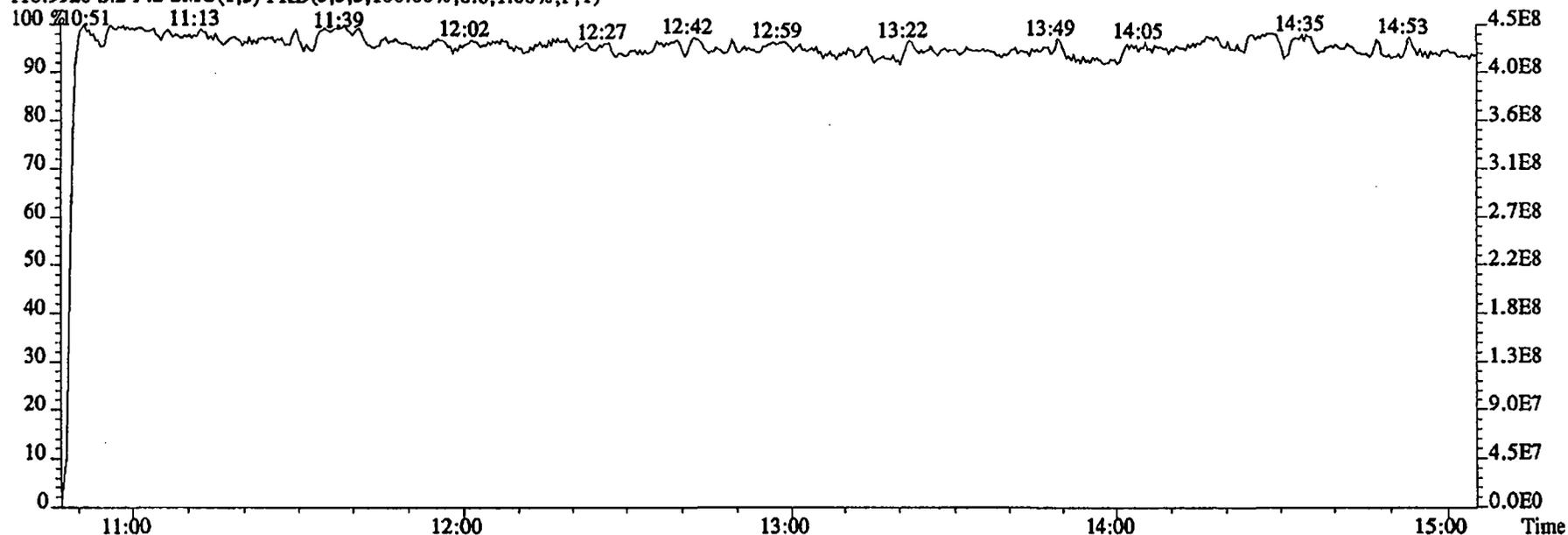
80.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



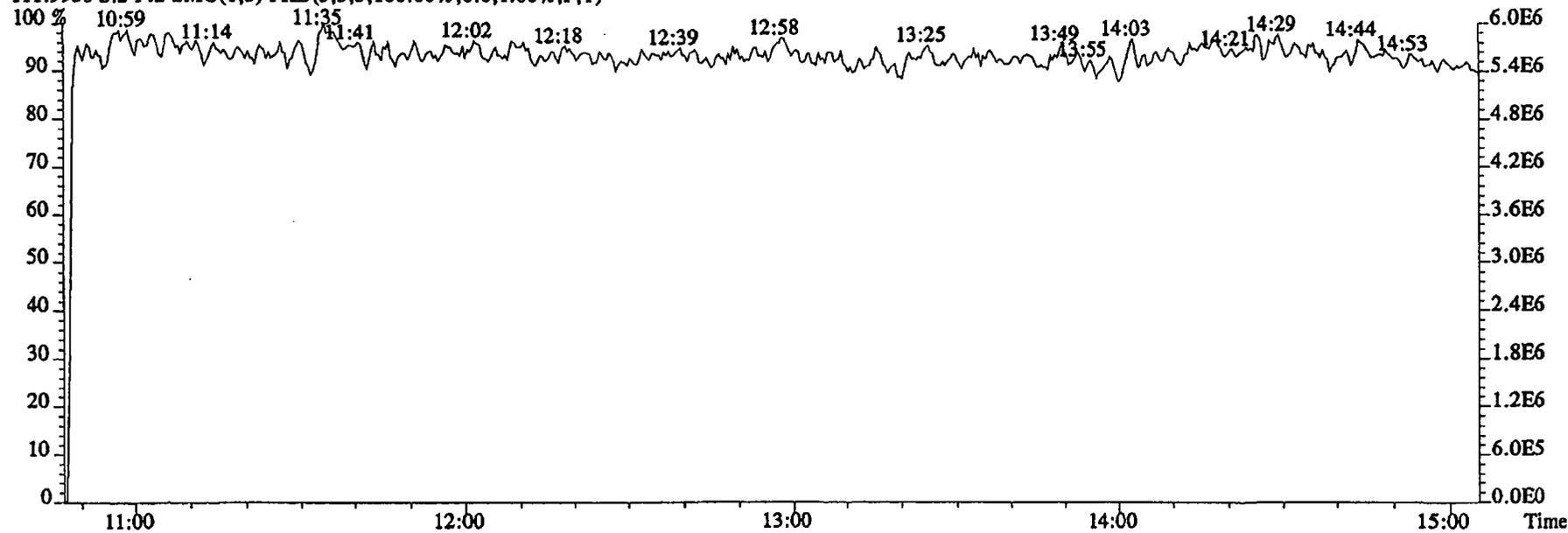
File:03DE04B5SP #1-602 Acq: 3-DEC-2004 22:21:16 GC EI+ Voltage SIR 70SE

Sample#2 Text:ST1203F :CS2 2350-68B Exp:NDMAVOA

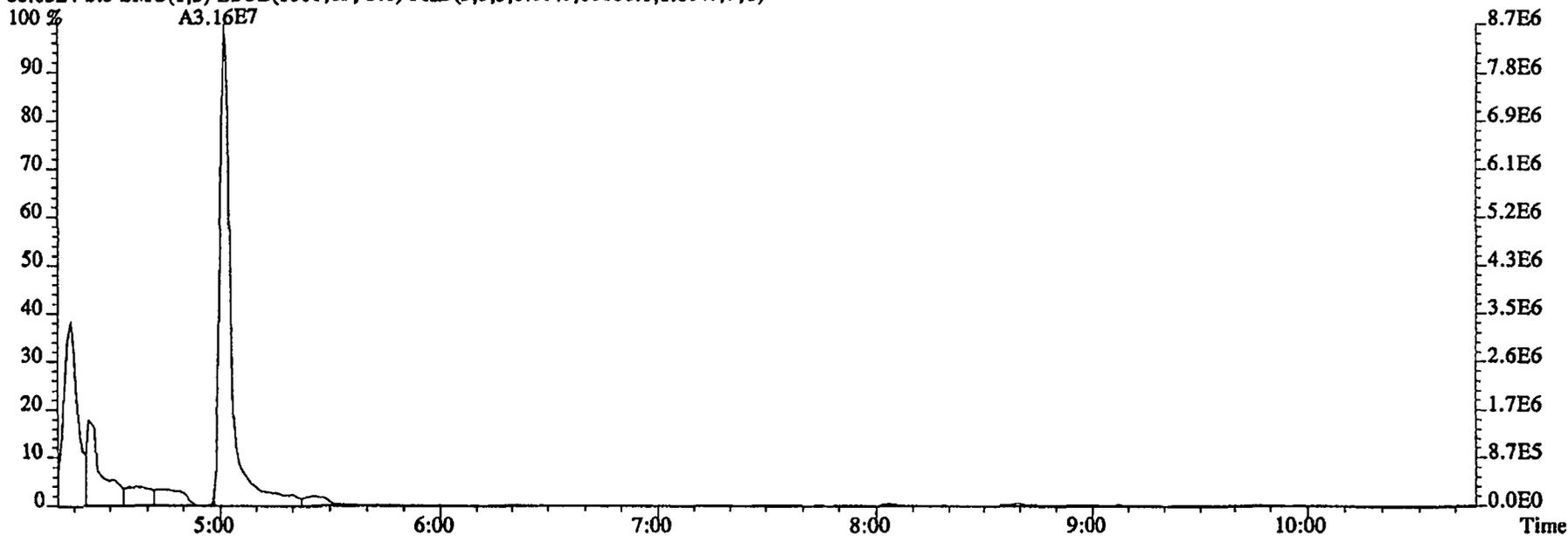
118.9920 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



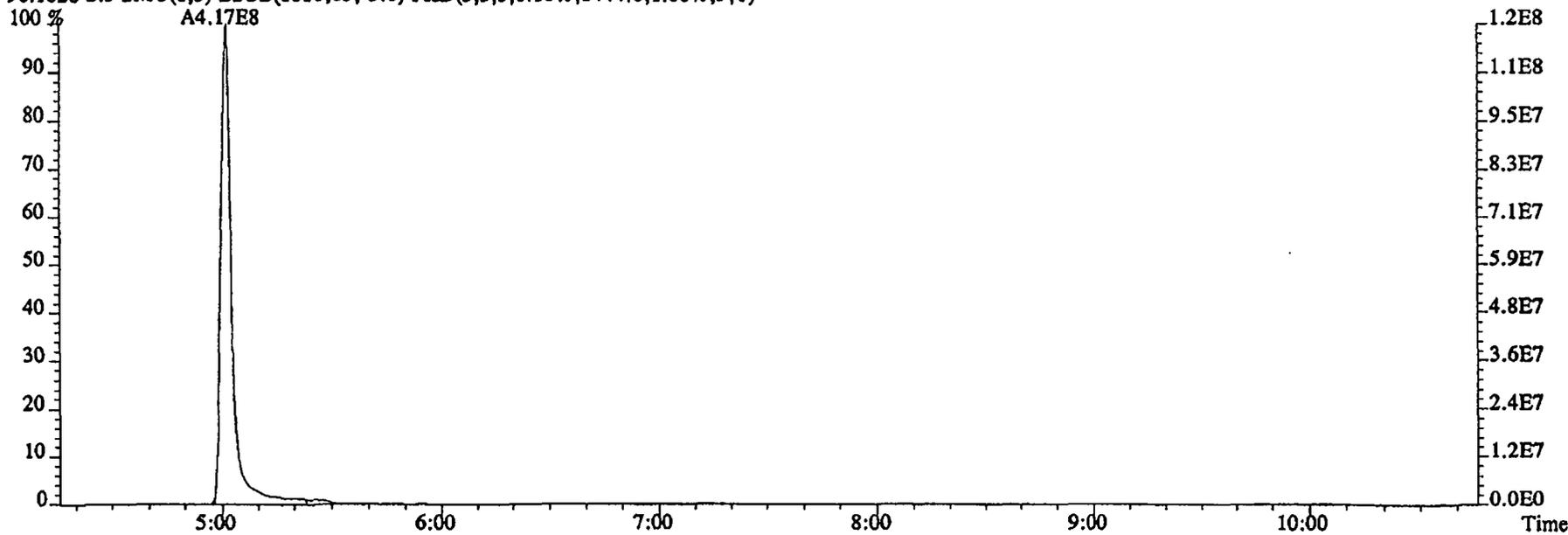
111.9936 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



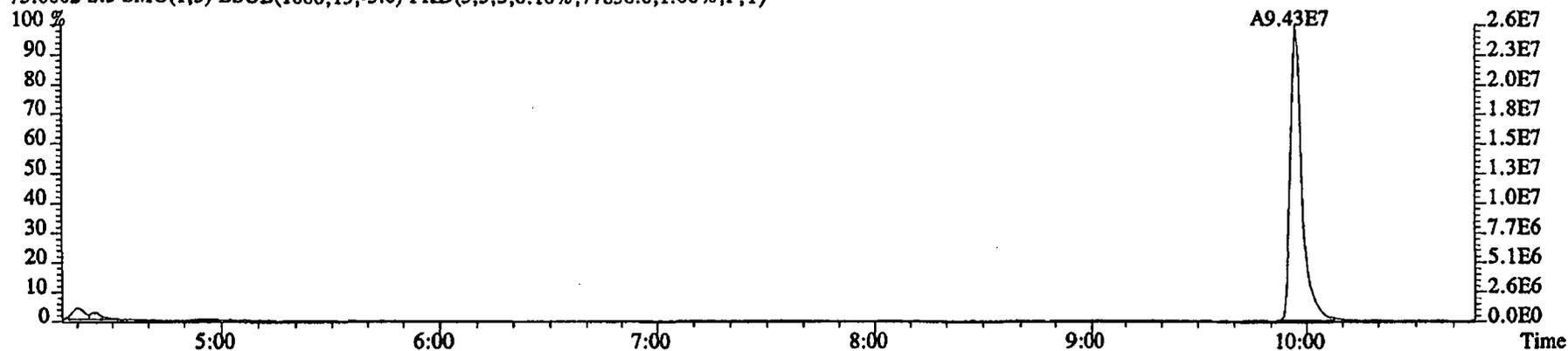
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 22:41:34 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1203G :CS3 2350-68C Exp:NDMAVOA  
88.0524 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10188.0,1.00%,F,T)



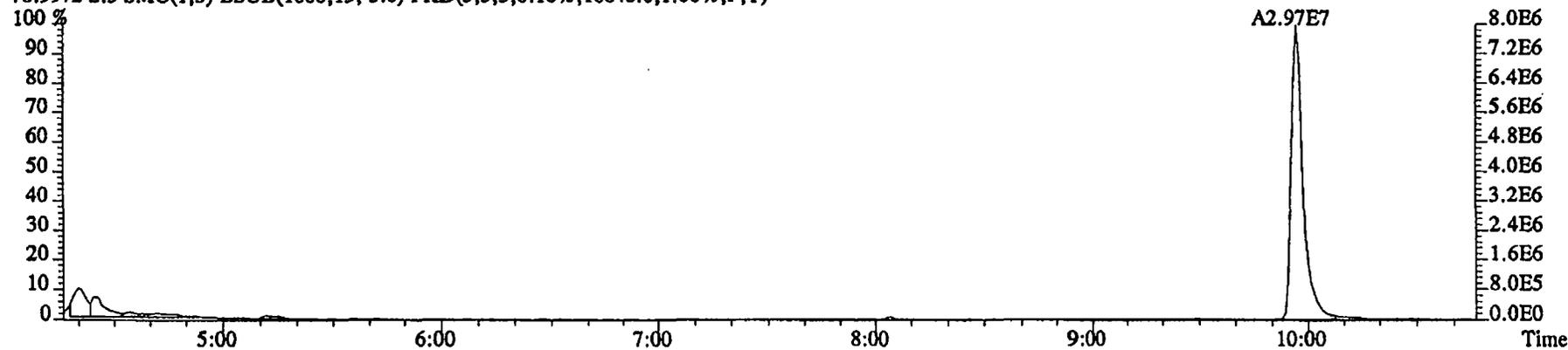
96.1026 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8444.0,1.00%,F,T)



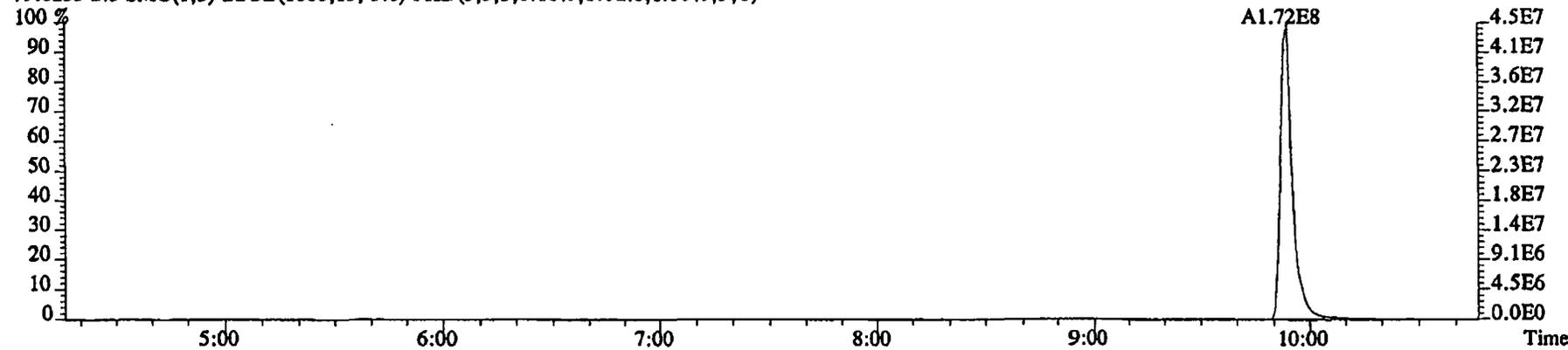
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 22:41:34 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1203G :CS3 2350-68C Exp:NDMAVOA  
75.0002 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,77856.0,1.00%,F,T)



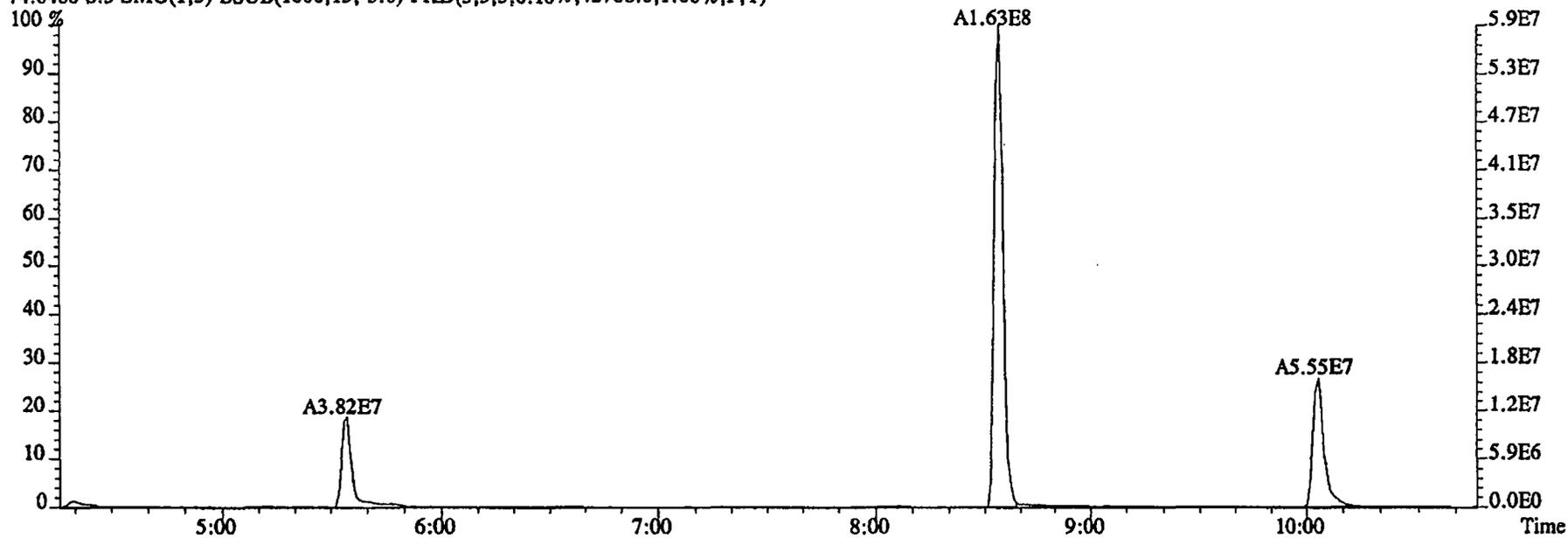
76.9972 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16848.0,1.00%,F,T)



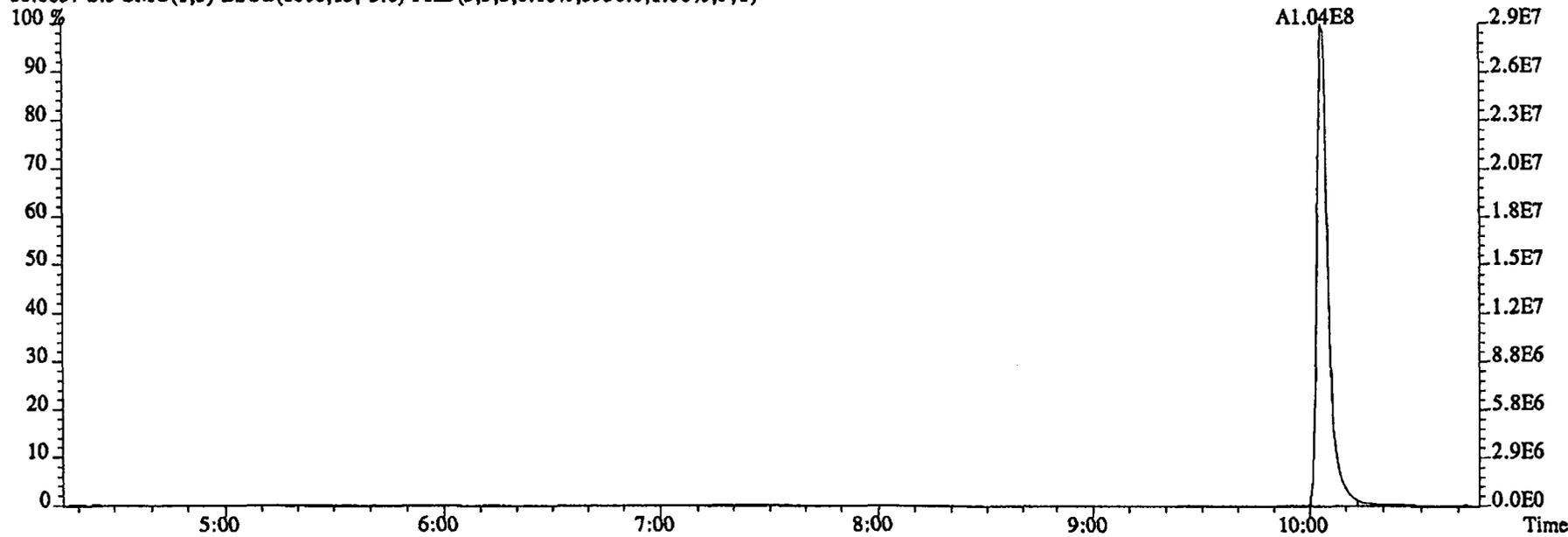
79.0253 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8792.0,1.00%,F,T)



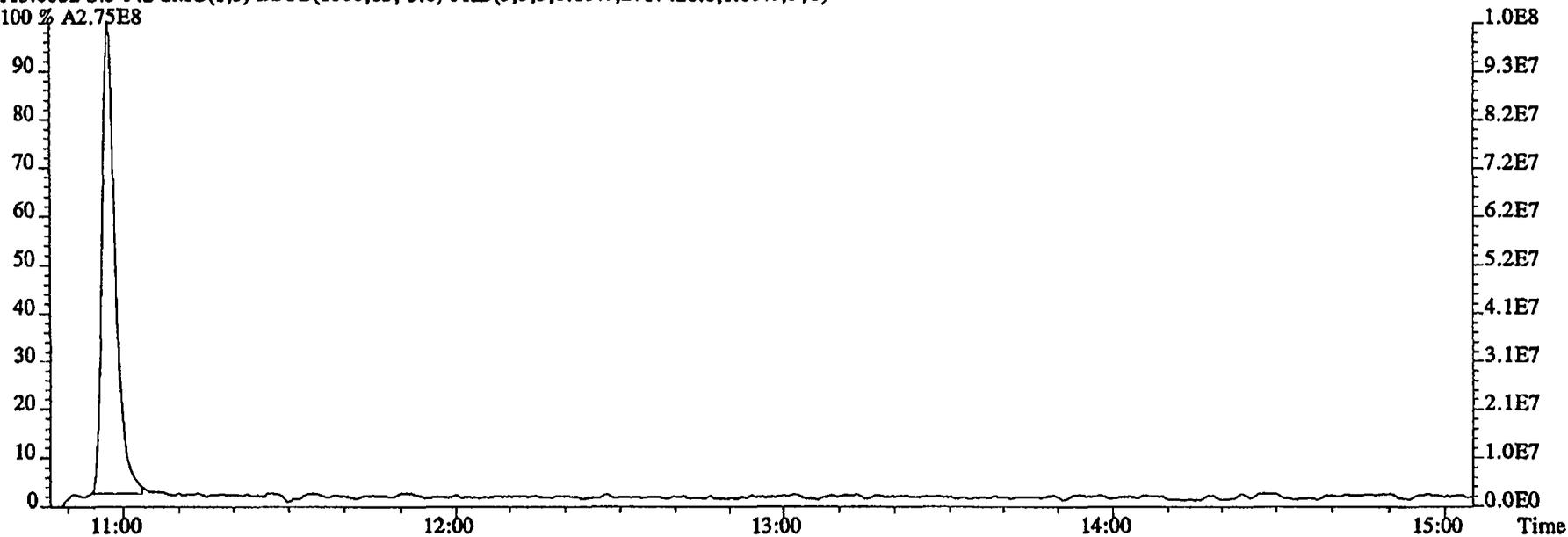
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 22:41:34 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1203G :CS3 2350-68C Exp:NDMAVOA  
74.0480 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,42768.0,1.00%,F,T)



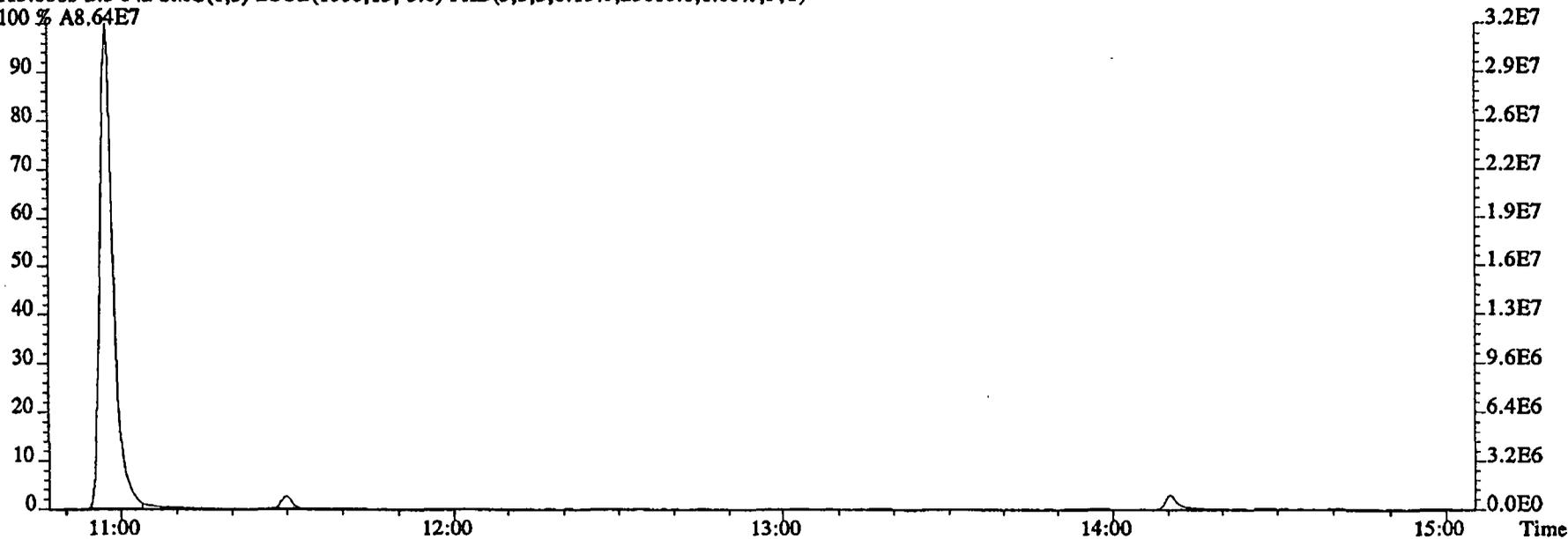
80.0857 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3936.0,1.00%,F,T)



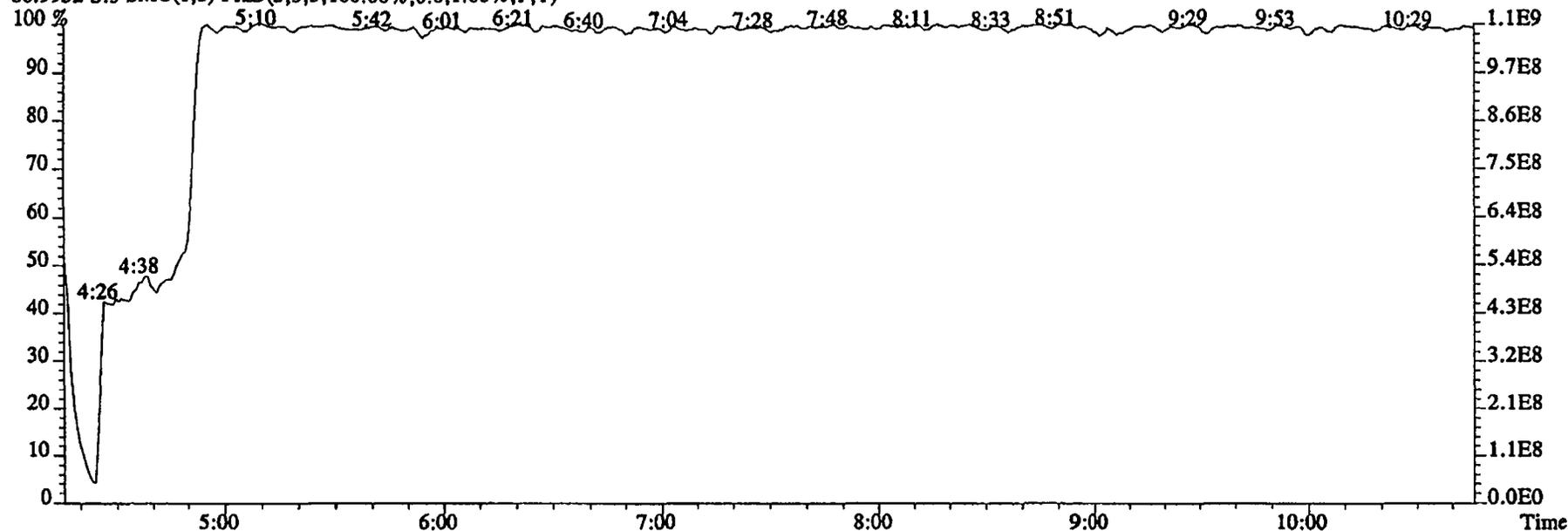
File:03DE04B5SP #1-602 Acq: 3-DEC-2004 22:41:34 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1203G :CS3 2350-68C Exp:NDMAVOA  
113.0032 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2717420.0,1.00%,F,T)  
100 % A2.75E8



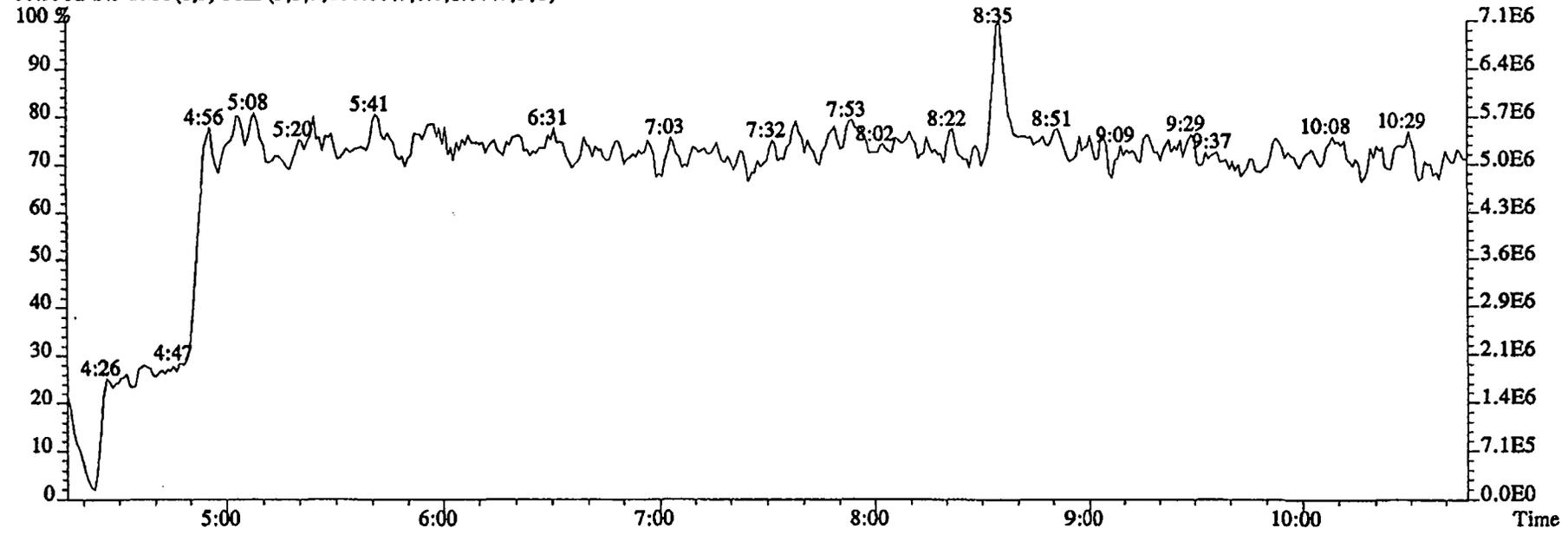
115.0003 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25116.0,1.00%,F,T)  
100 % A8.64E7



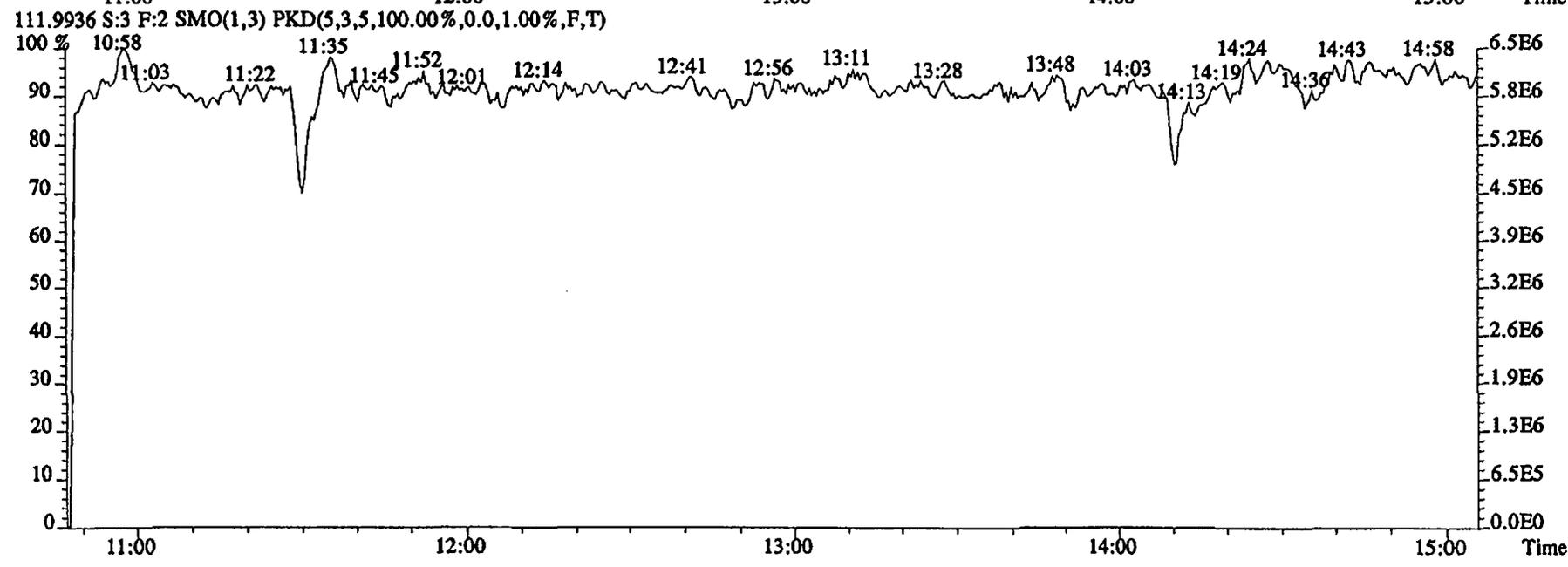
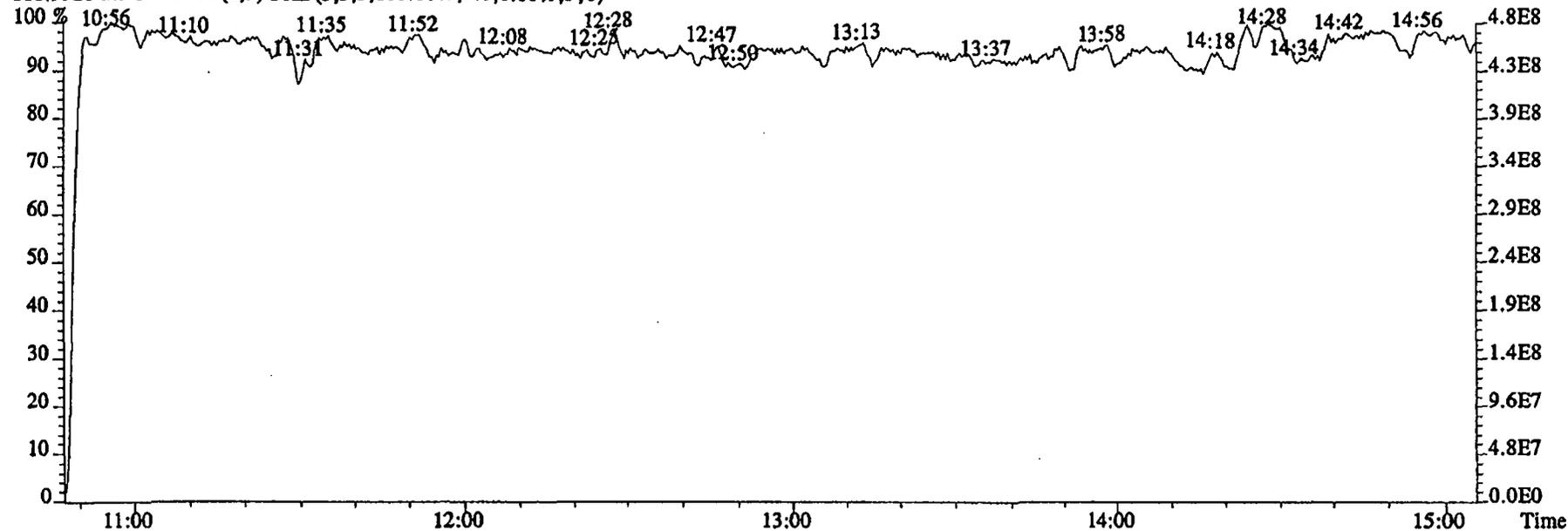
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 22:41:34 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1203G :CS3 2350-68C Exp:NDMAVOA  
68.9952 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



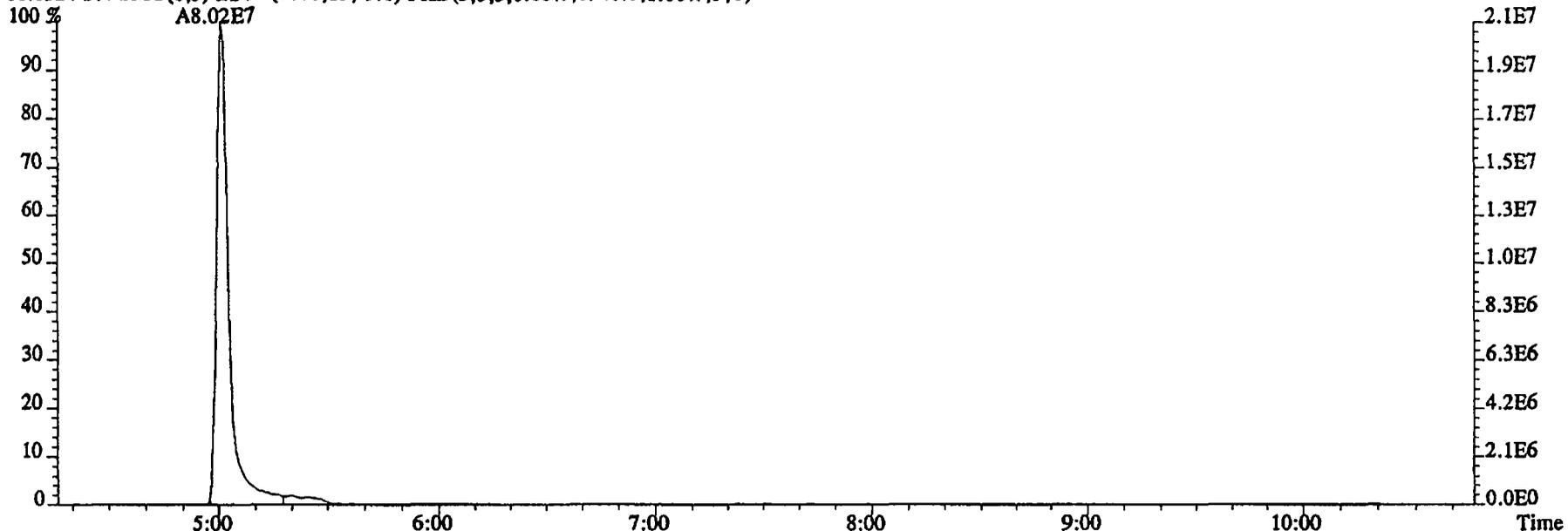
80.9952 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



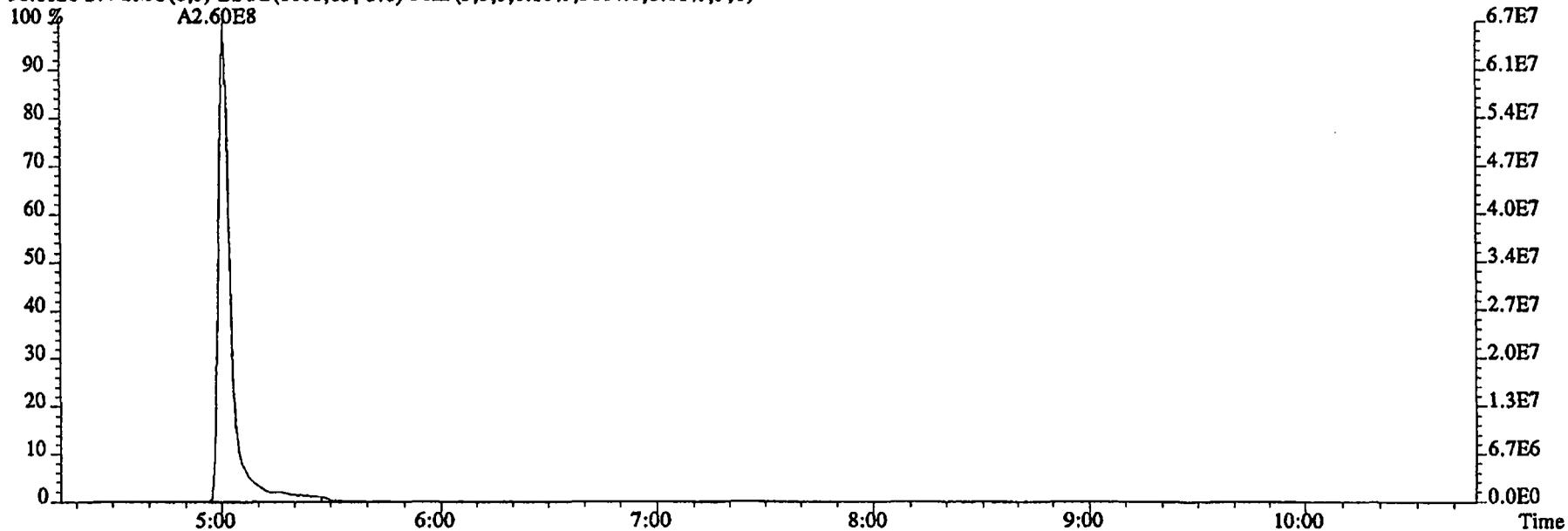
File:03DE04B5SP #1-602 Acq: 3-DEC-2004 22:41:34 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1203G :CS3 2350-68C Exp:NDMAVOA  
118.9920 S:3 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



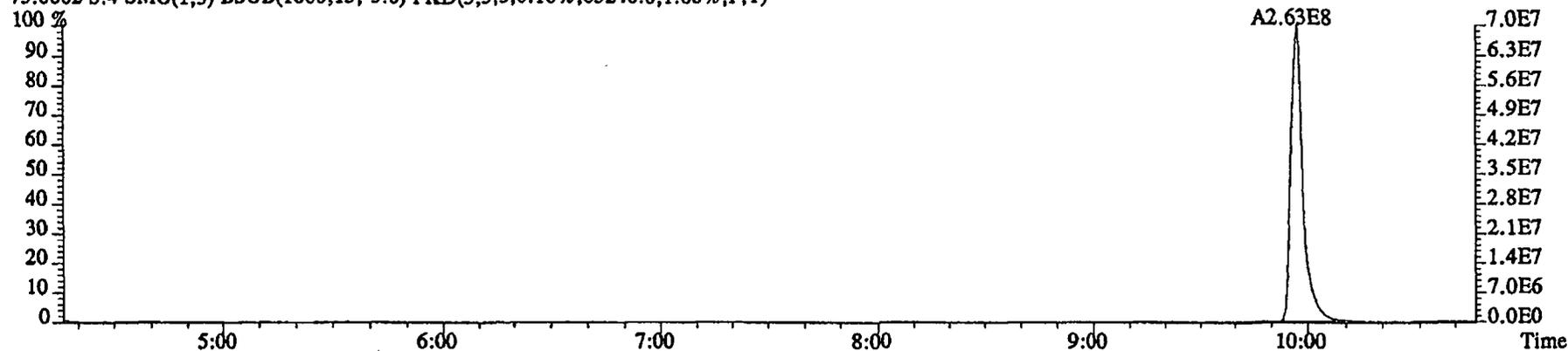
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 23:01:55 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1203H :CS4 2350-68D Exp:NDMAVOA  
88.0524 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8948.0,1.00%,F,T)



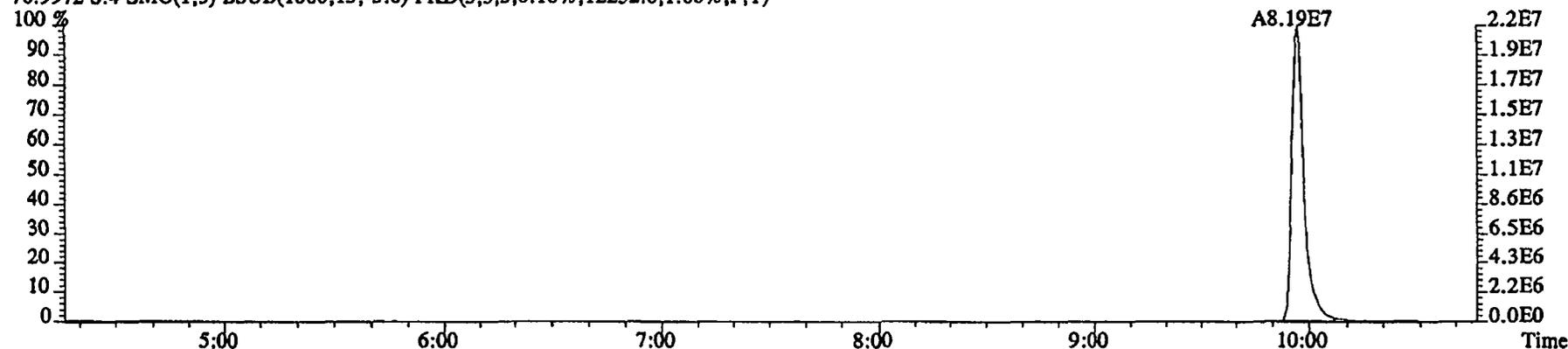
96.1026 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5884.0,1.00%,F,T)



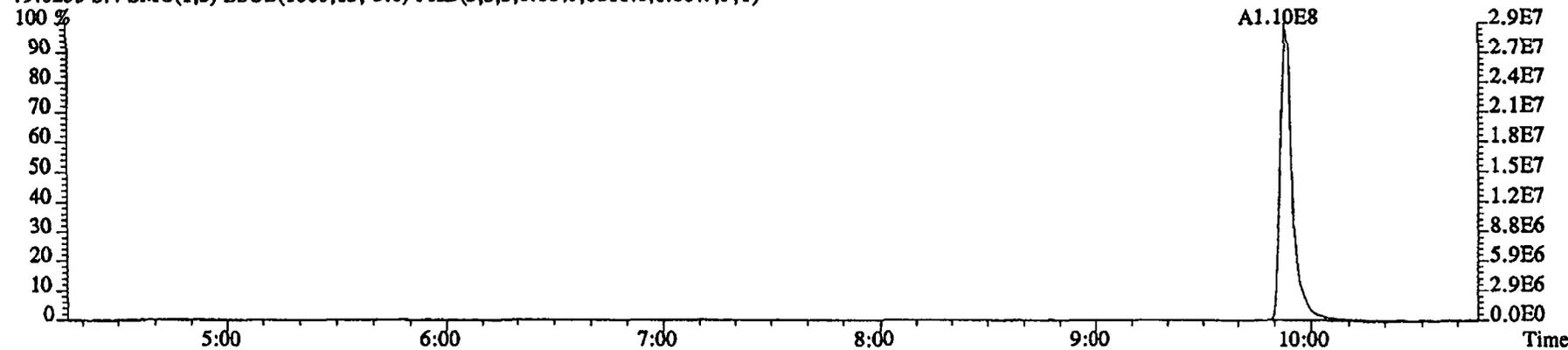
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 23:01:55 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1203H :CS4 2350-68D Exp:NDMAVOA  
75.0002 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,65240.0,1.00%,F,T)



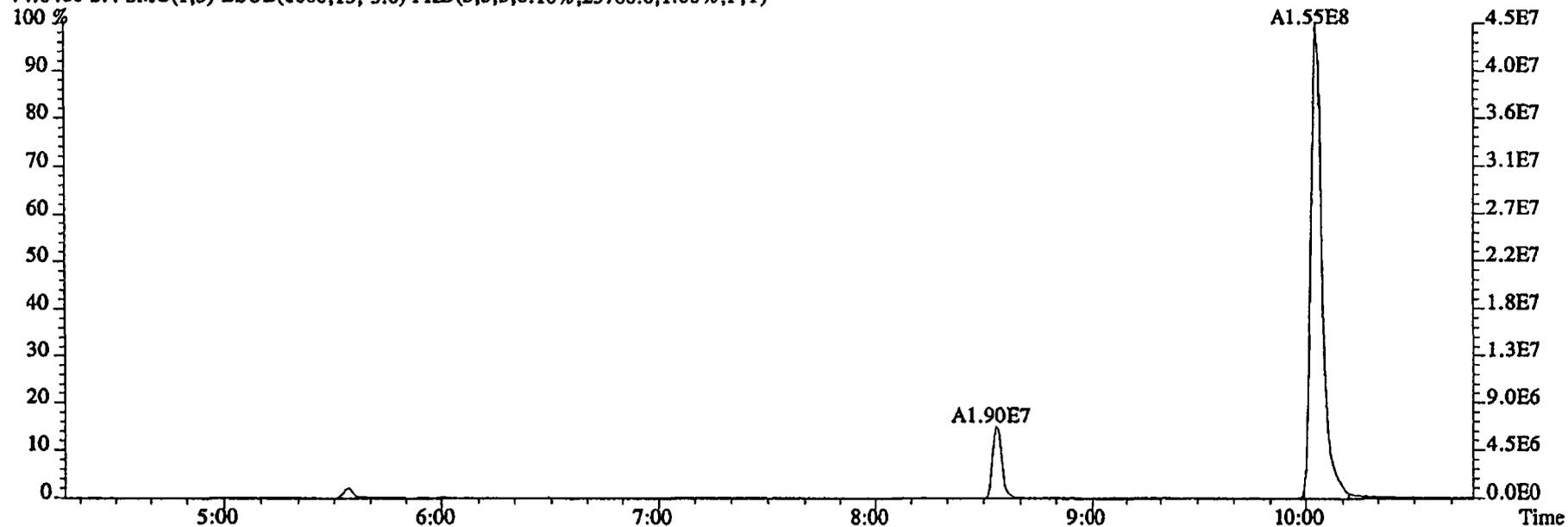
76.9972 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12252.0,1.00%,F,T)



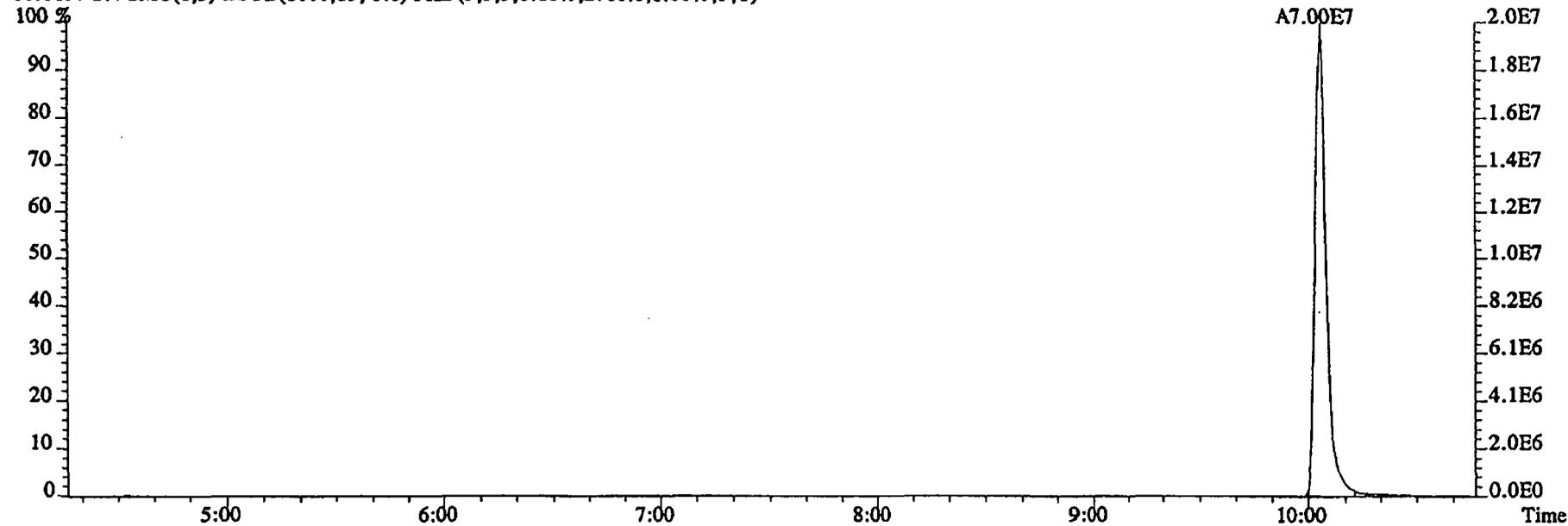
79.0253 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6816.0,1.00%,F,T)



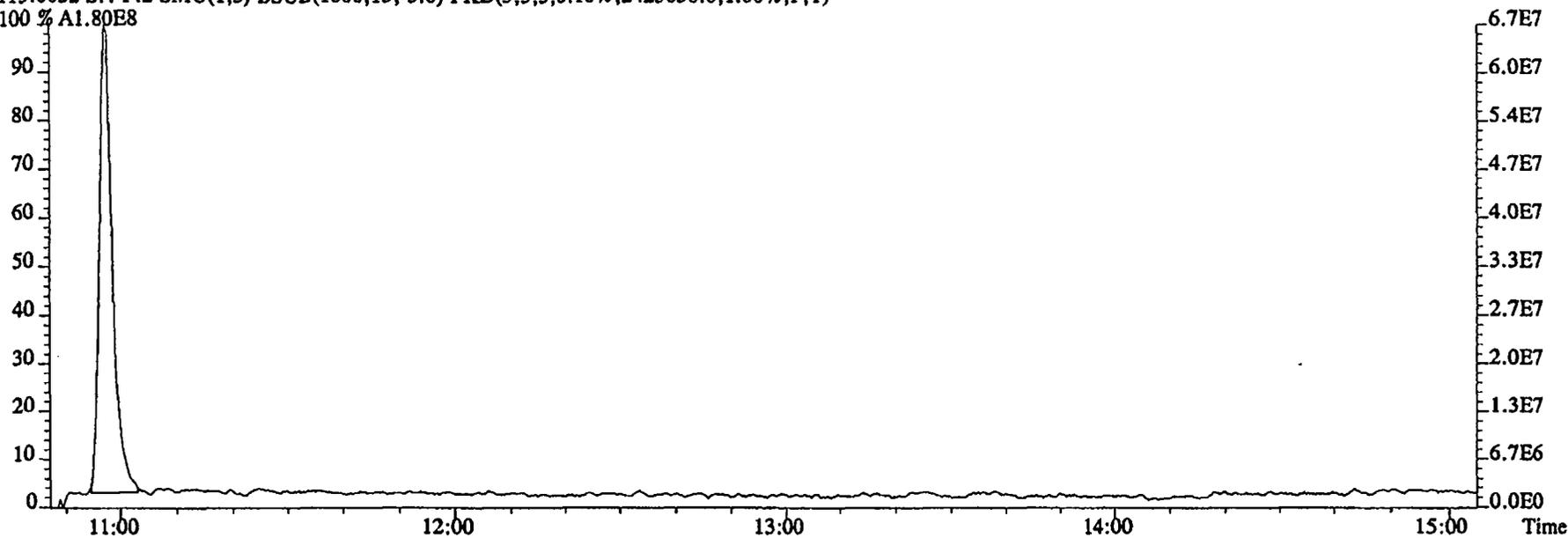
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 23:01:55 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1203H :CS4 2350-68D Exp:NDMAVOA  
74.0480 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25780.0,1.00%,F,T)



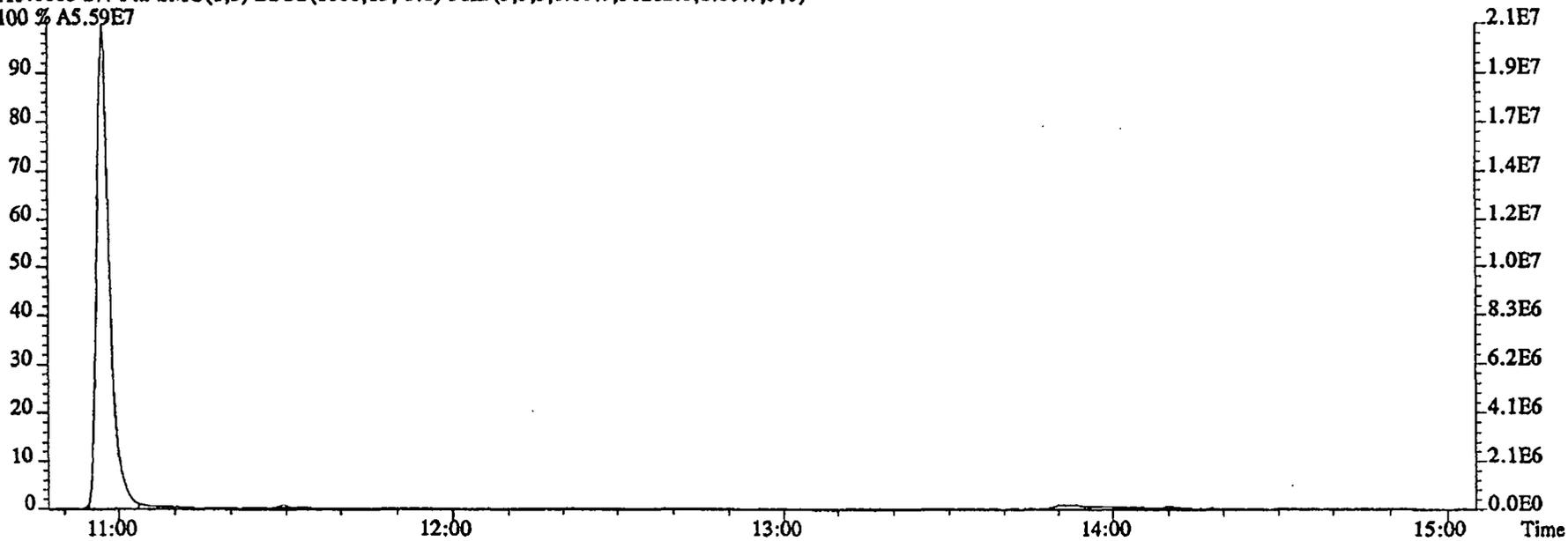
80.0857 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760.0,1.00%,F,T)



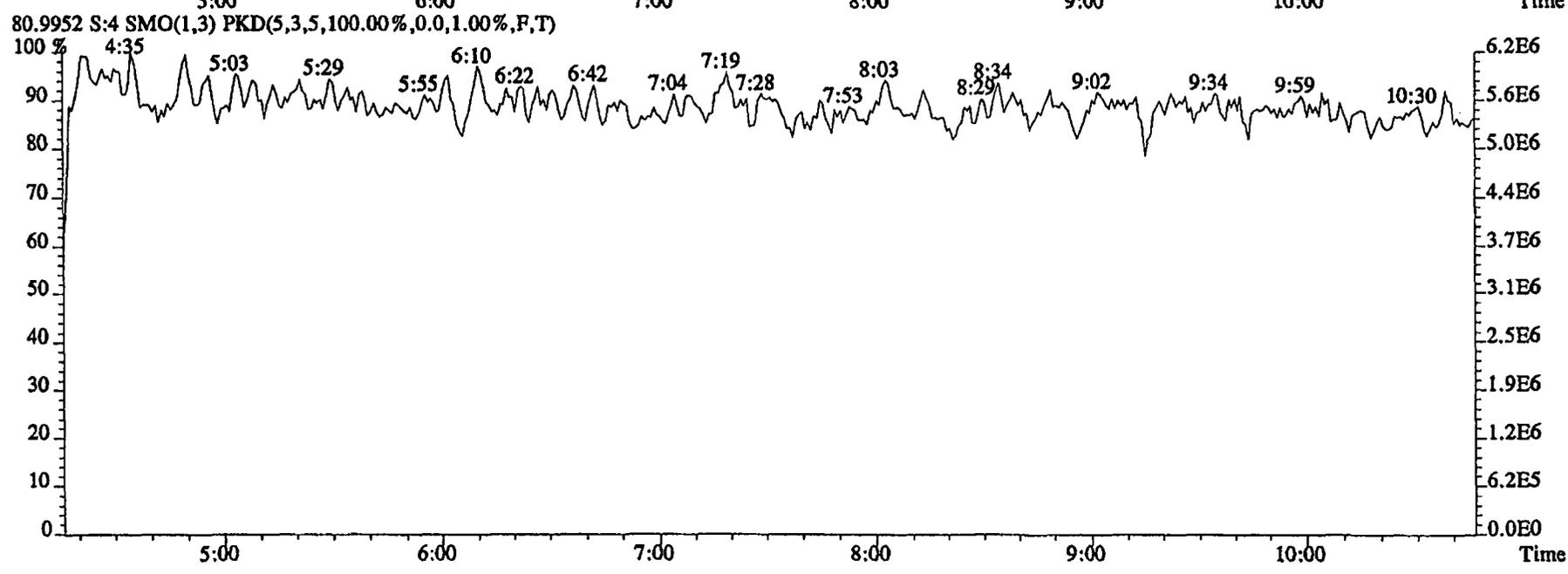
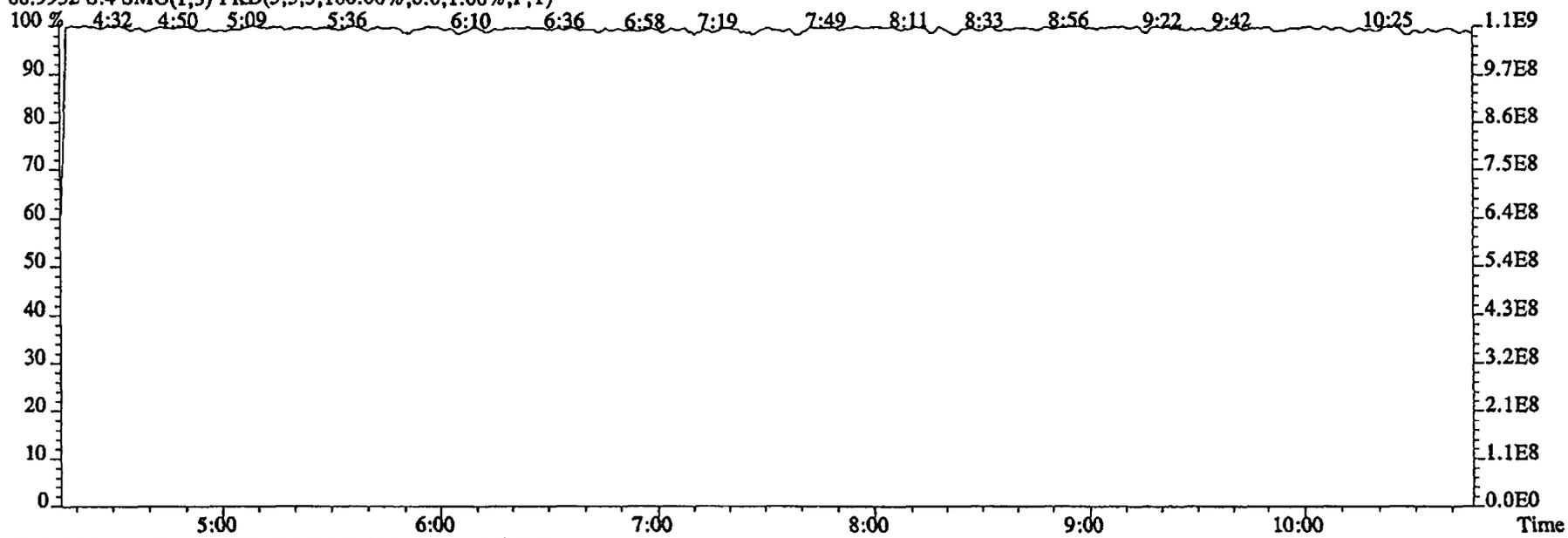
File:03DE04B5SP #1-601 Acq: 3-DEC-2004 23:01:55 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1203H :CS4 2350-68D Exp:NDMAVOA  
113.0032 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2425856.0,1.00%,F,T)  
100 % A1.80E8



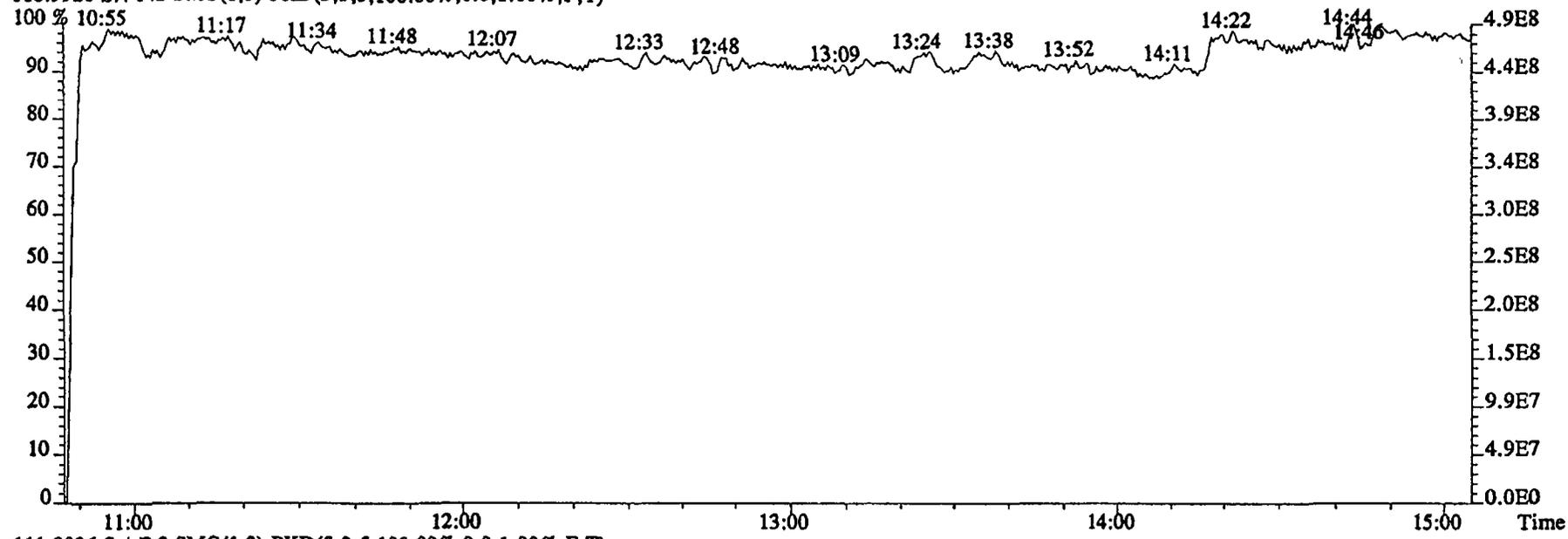
115.0003 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30212.0,1.00%,F,T)  
100 % A5.59E7



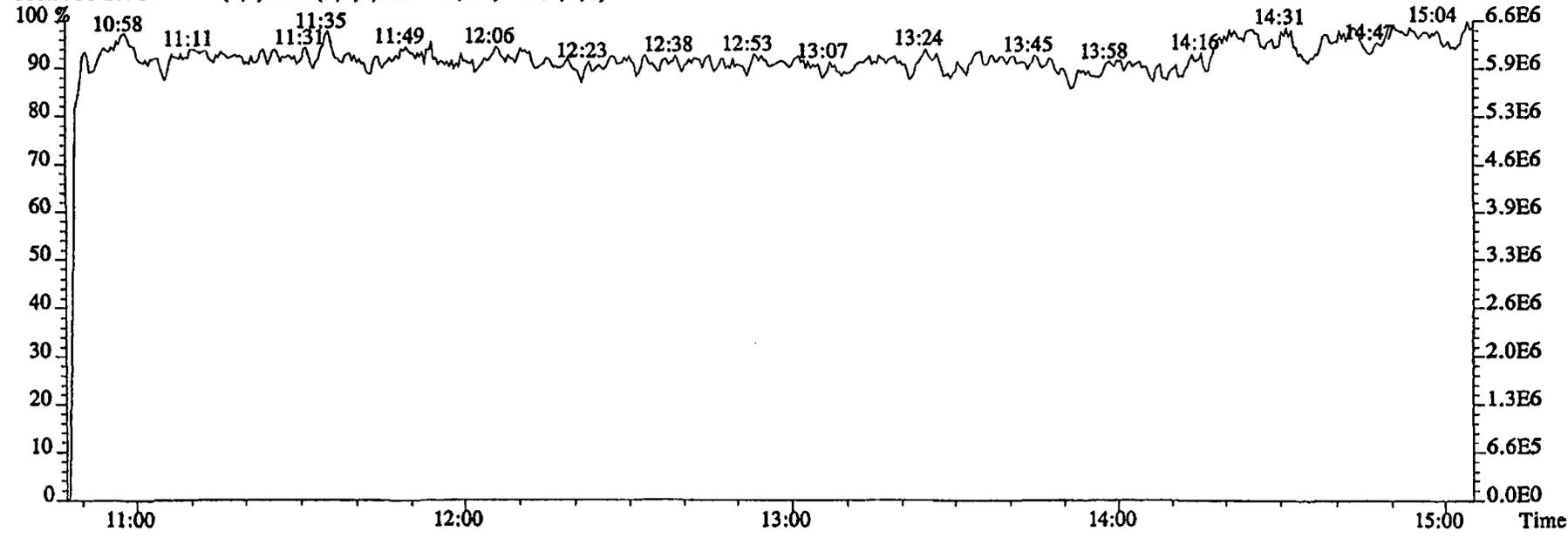
File:03DE04B5SP #1-481 Acq: 3-DEC-2004 23:01:55 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1203H :CS4 2350-68D Exp:NDMAVOA  
68.9952 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



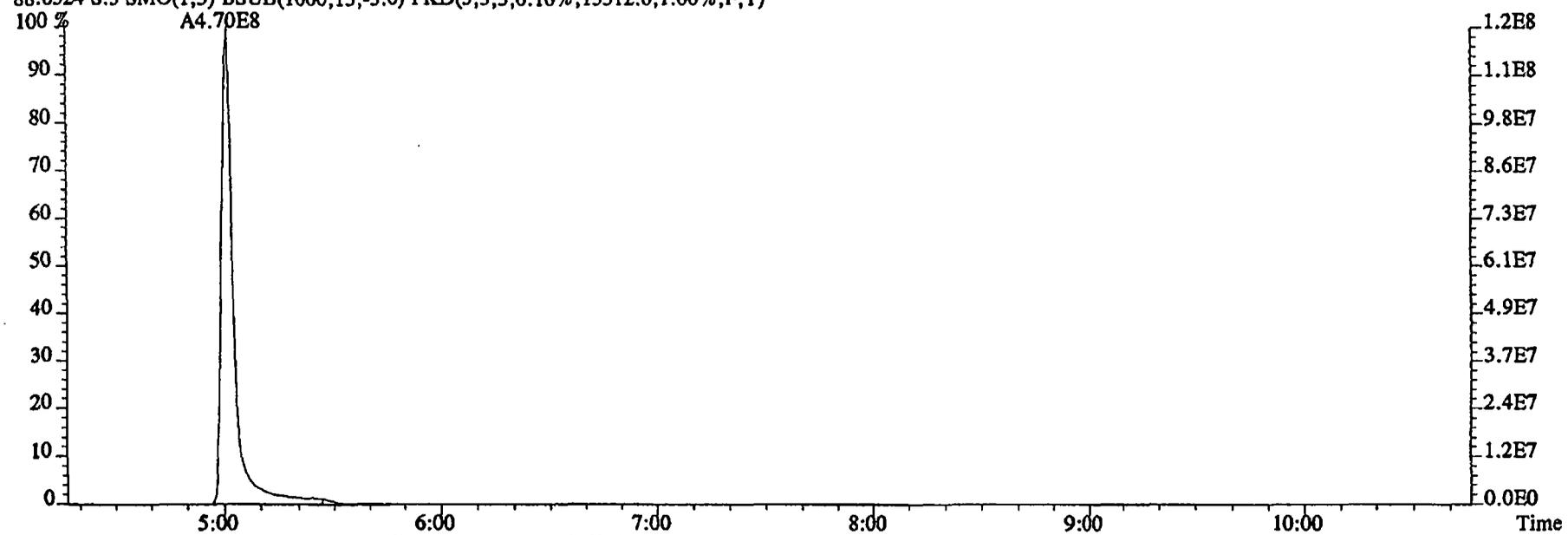
File:03DE04B5SP #1-601 Acq: 3-DEC-2004 23:01:55 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1203H :CS4 2350-68D Exp:NDMAVOA  
118.9920 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



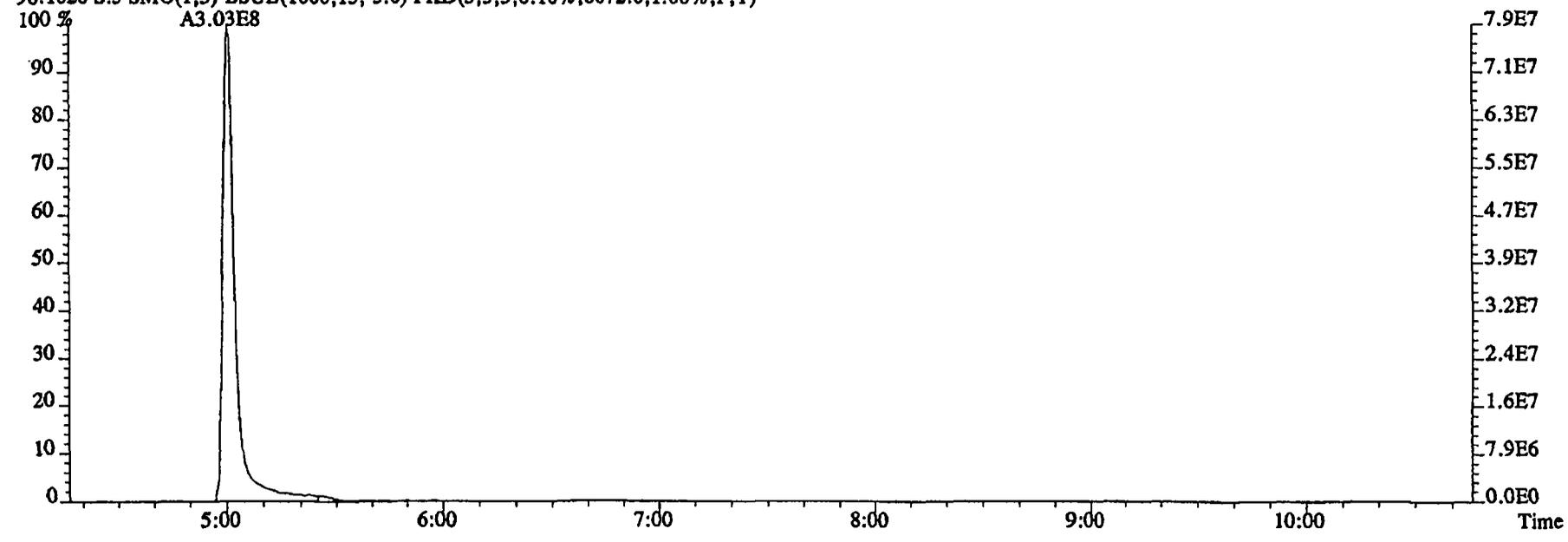
111.9936 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



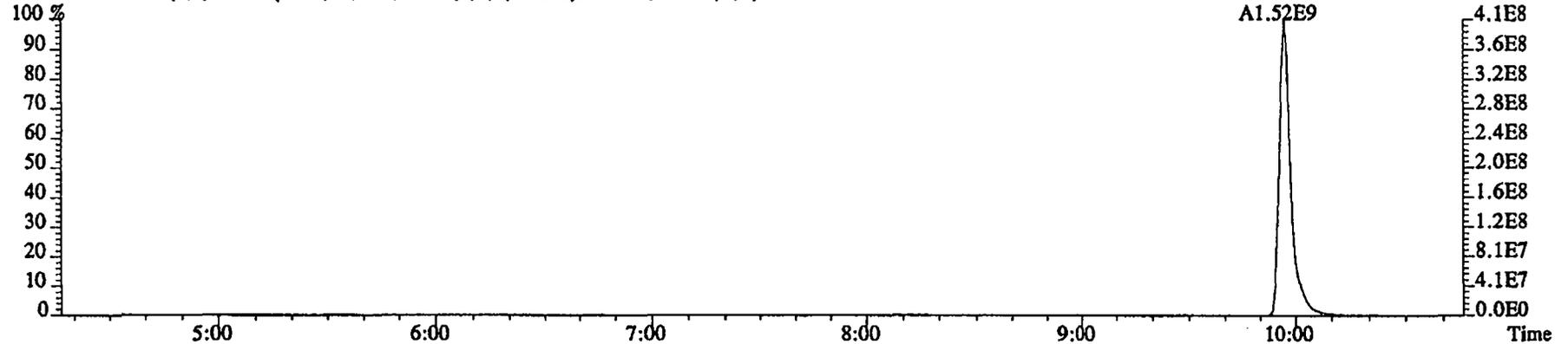
File:03DE04B5SP #1-480 Acq: 3-DEC-2004 23:22:17 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST12031 :CS5 2350-68E Exp:NDMAVOA  
88.0524 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13512.0,1.00%,F,T)



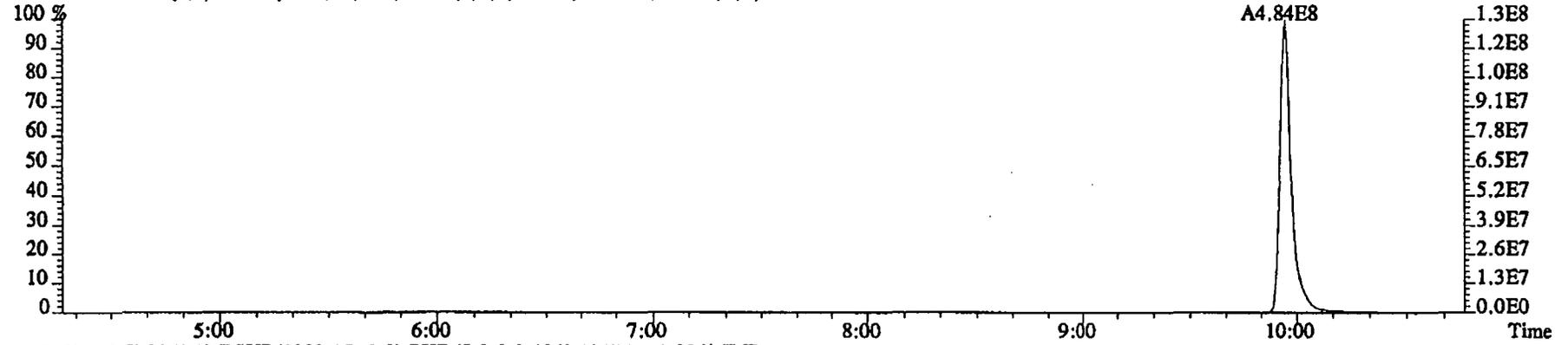
96.1026 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6072.0,1.00%,F,T)



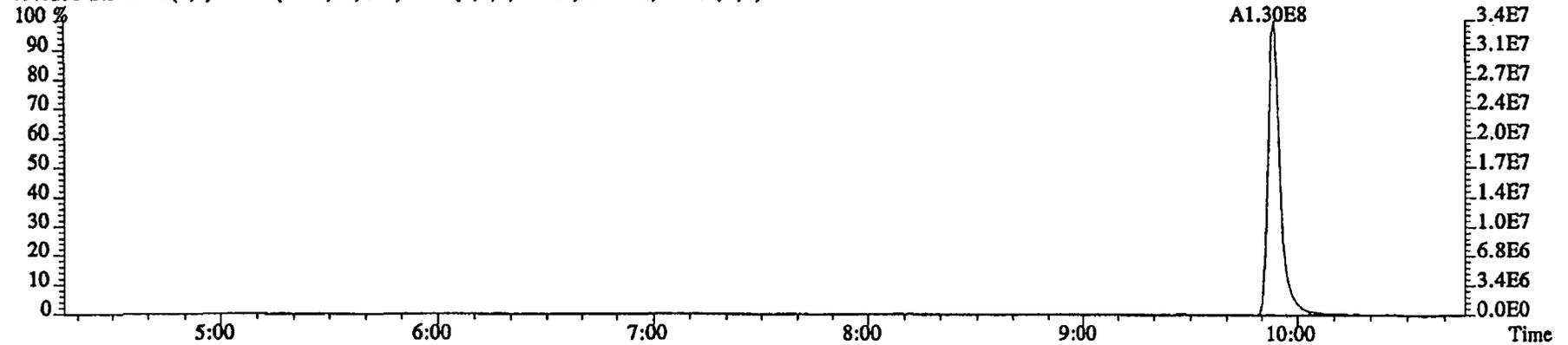
File:03DE04B5SP #1-480 Acq: 3-DEC-2004 23:22:17 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1203I :CS5 2350-68E Exp:NDMAVOA  
75.0002 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,83724.0,1.00%,F,T)



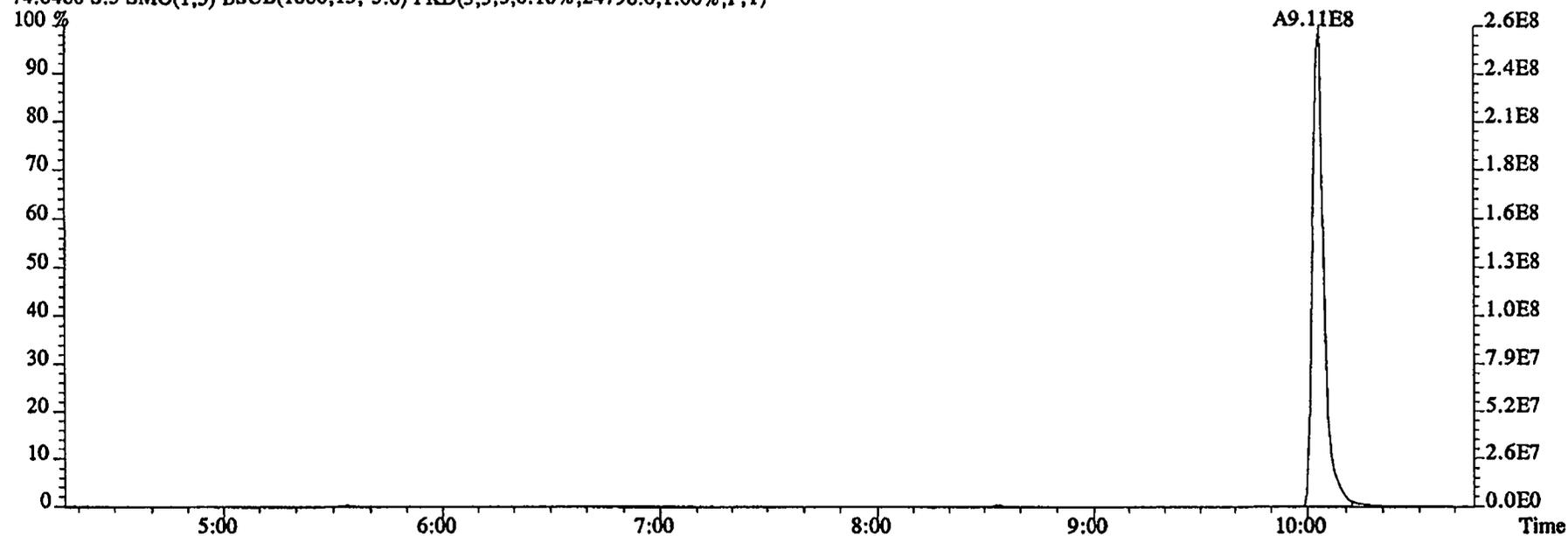
76.9972 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14044.0,1.00%,F,T)



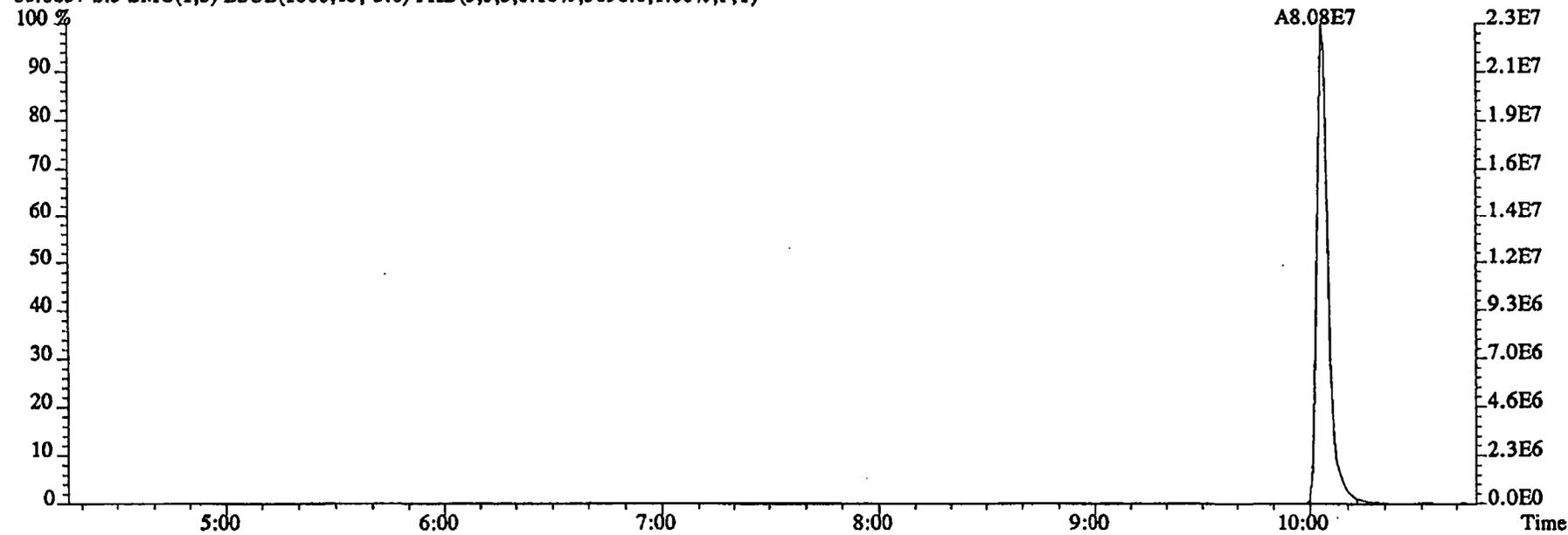
79.0253 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10476.0,1.00%,F,T)



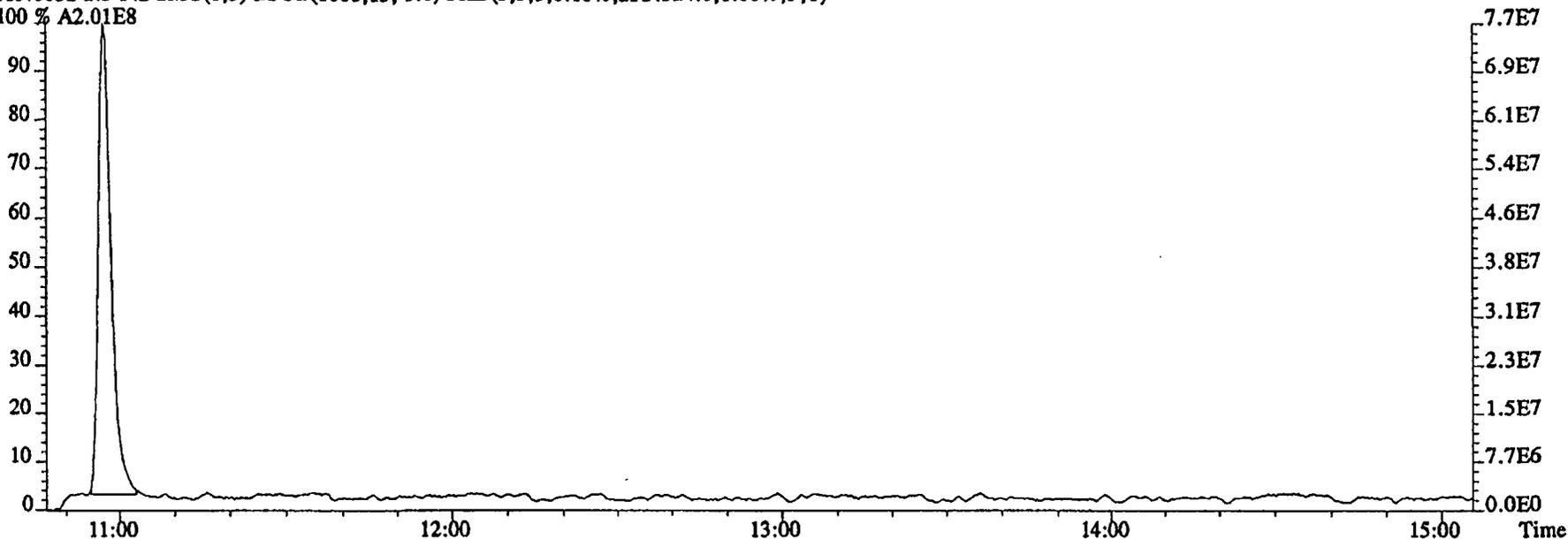
File:03DE04B5SP #1-480 Acq: 3-DEC-2004 23:22:17 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1203I :CS5 2350-68E Exp:NDMAVOA  
74.0480 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24796.0,1.00%,F,T)



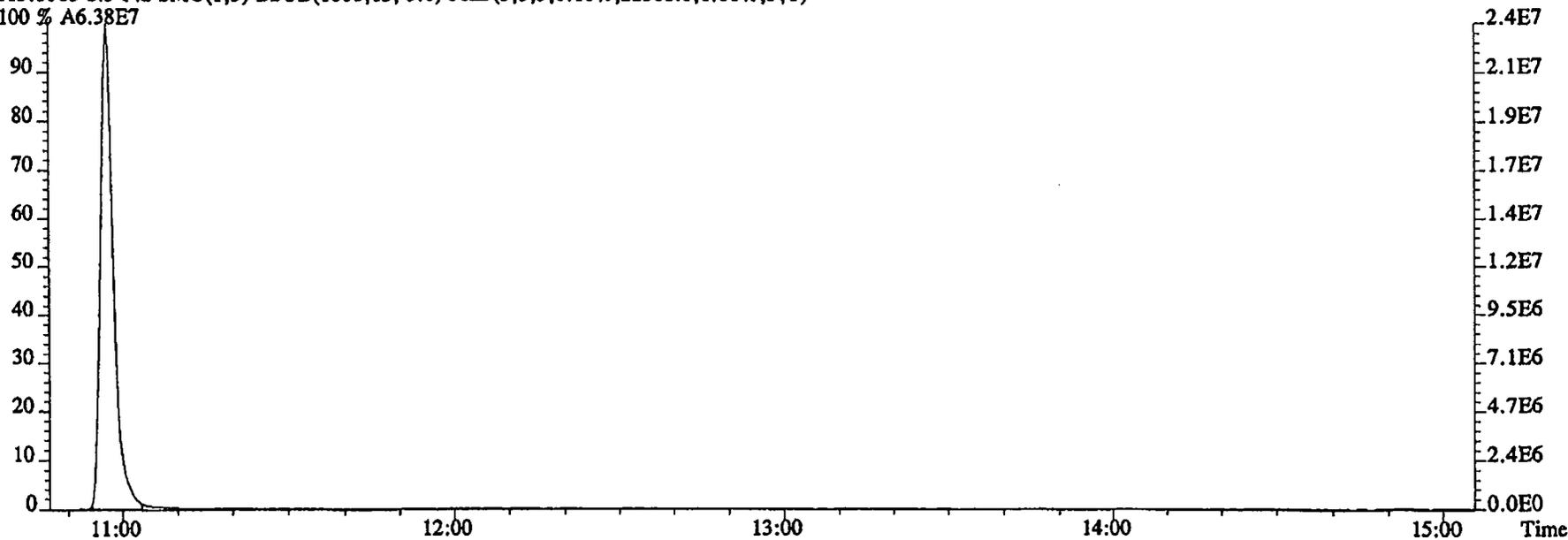
80.0857 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3696.0,1.00%,F,T)



File:03DE04B5SP #1-603 Acq: 3-DEC-2004 23:22:17 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST12031 :CS5 2350-68E Exp:NDMAVOA  
113.0032 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2584524.0,1.00%,F,T)  
100 % A2.01E8



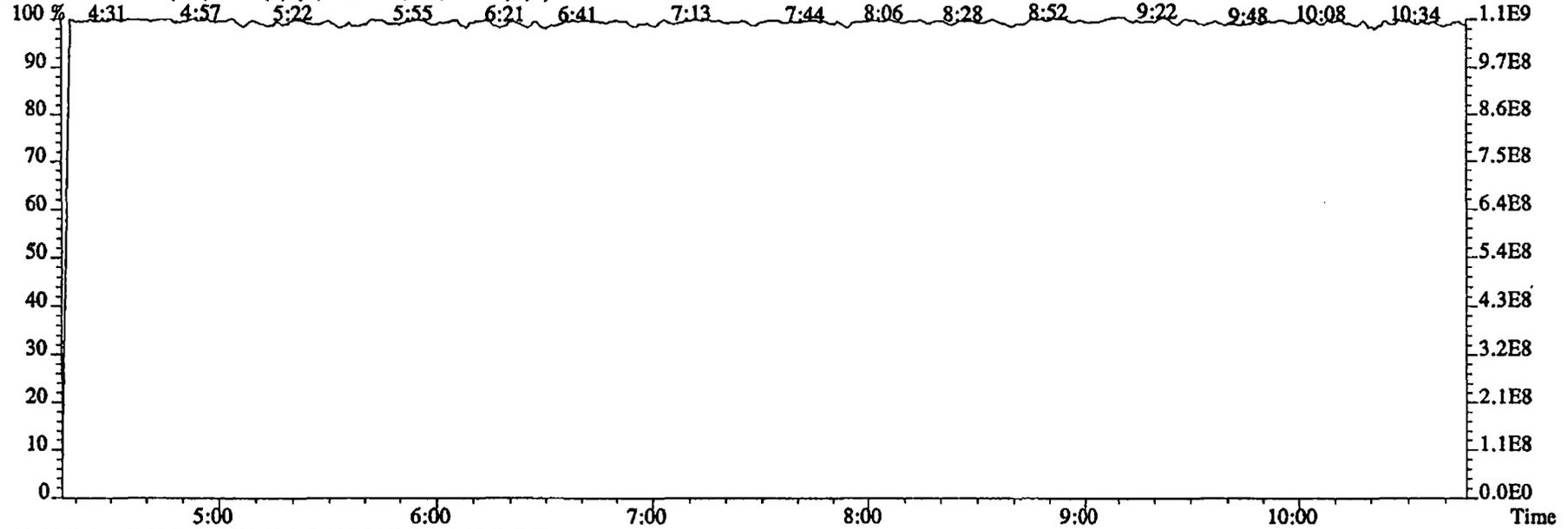
115.0003 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22368.0,1.00%,F,T)  
100 % A6.38E7



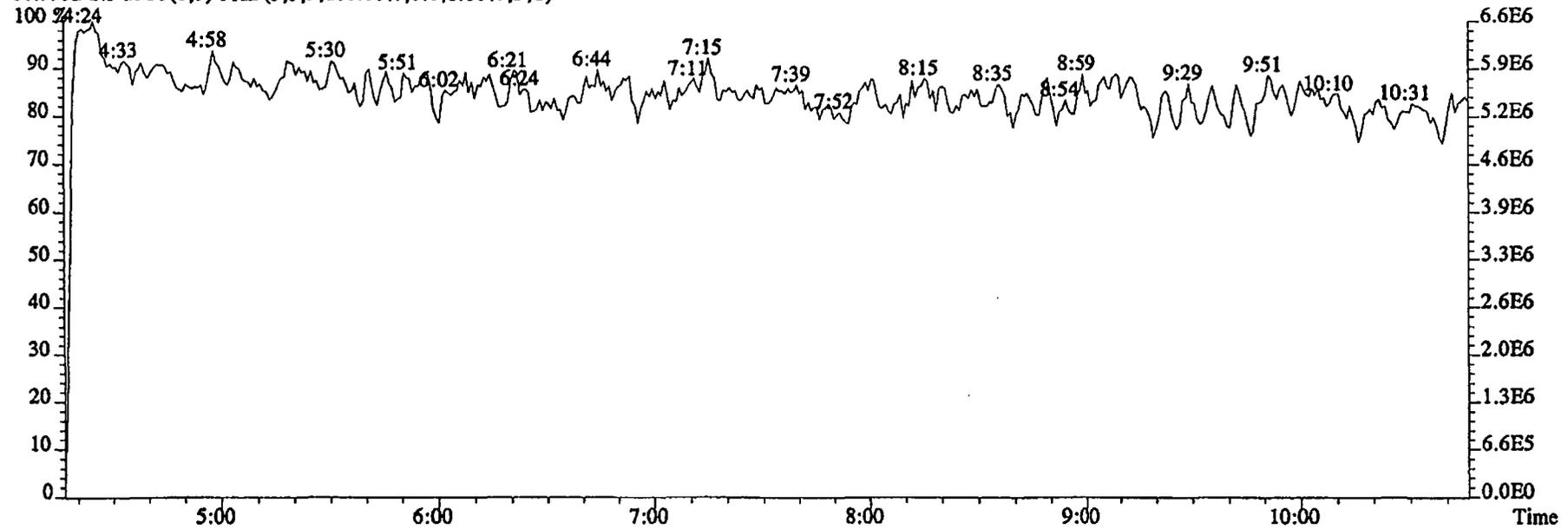
File:03DE04B5SP #1-480 Acq: 3-DEC-2004 23:22:17 GC EI+ Voltage SIR 70SE

Sample#5 Text:ST12031 :CS5 2350-68E Exp:NDMAVOA

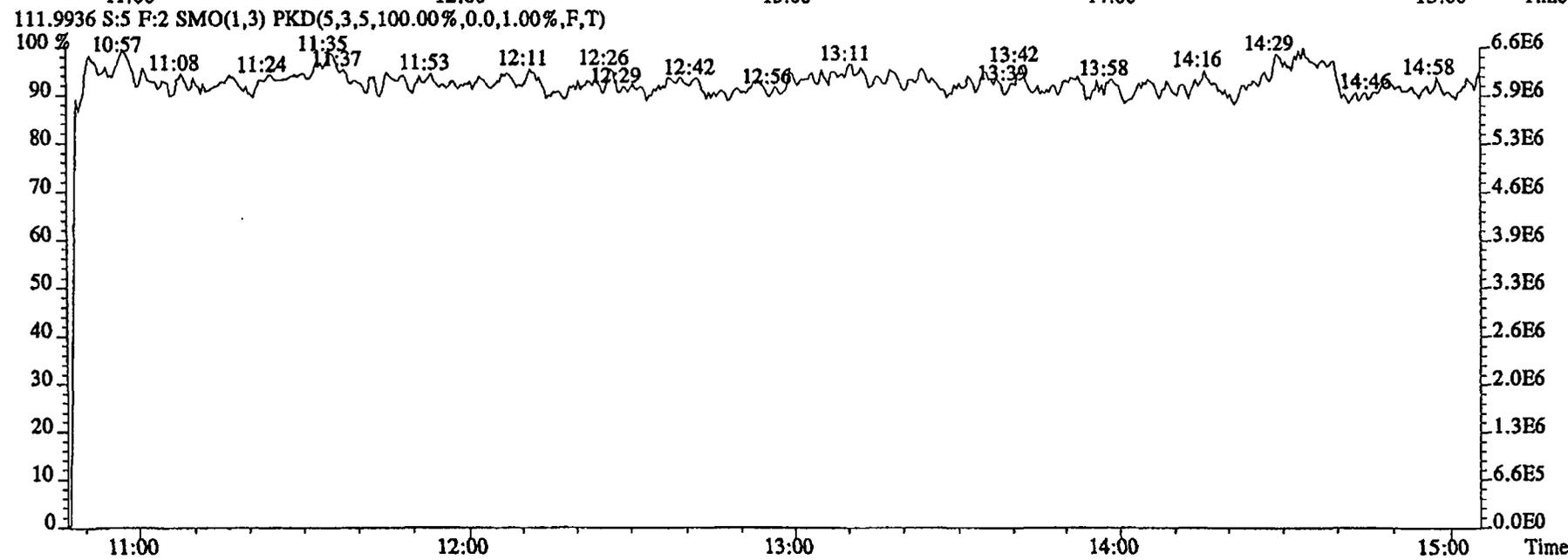
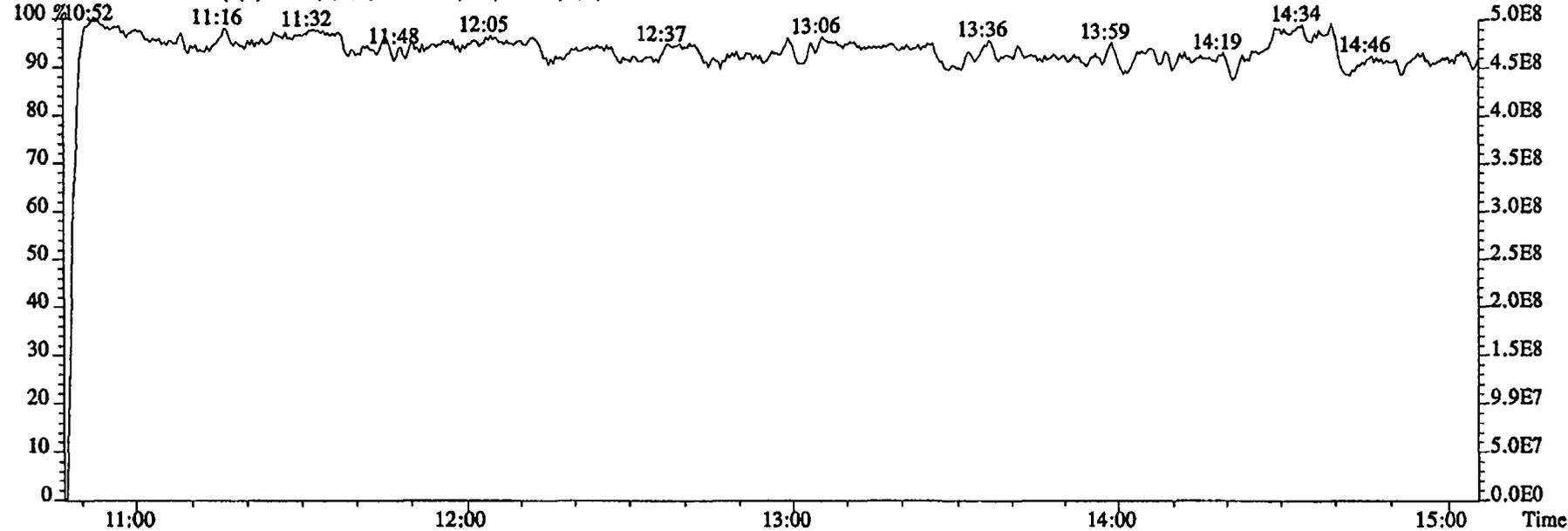
68.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



80.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:03DE04B5SP #1-603 Acq: 3-DEC-2004 23:22:17 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST12031 :CS5 2350-68E Exp:NDMAVOA  
118.9920 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



**Sample Extraction/Preparation Log**  
**Copies and Checklists**

DCS is only required when a client requests one or a MS/SD is requested and limited sample size is available.

G4L020335

Please Circle Extraction Type if used:  
Soxhlet / Soxhtherm / DI TCLP

Ext. 1

Ext. 2

6A

Extraction time on: \_\_\_\_\_

Extraction time off: \_\_\_\_\_

Semivolatiles by HRGC/HRMS (1625 Modified)

Sample #	Suff	Sugg. Sample Size	Actual Sample Size	613 Extraction		* Final Volume					
				Init/Date	Init/Date	Init/Date	Init/Date				
MB											
LCS											
DCS											
1		1000 mL	988.2	12/13/04	12-3-04						
2			979.9								
3			987.1								
4			971.3								

All Samples I.S. ID Added Vol./Conc.	1000/2350-65	By: <i>[Signature]</i>	Witness: NOA	Date: 12/3/04
LCS/DCS/MS/SD N.S. ID Added Vol./Conc.	—	By: —	Witness: —	Date: —
All Samples CRS/Surr ID Added Vol./Conc.		By: —	Witness: —	Date: —
All Samples R.S. ID Added Vol./Conc.	2000/2350-37	By: BOIT	Witness: <i>[Signature]</i>	Date: DEC 03 2004

Comments (Including Dilution at FV Information):

QC Lot ID: G4L010311  
 Batch: 4338287  
 Extraction Solvents Used: DCM  
H2O  
 Solvent Lot #: \_\_\_\_\_

Associated Samples: \_\_\_\_\_  
 Batch: \_\_\_\_\_  
 Method: \_\_\_\_\_  
*[Signature]*

\*Note: Final Volume column is used when the analyst who performed the addition of the Recovery Standard is different than the individual who concentrated the sample to the final volume. Also, if the final volume is different than the volume of Recovery Standard added, please denote in this column as well.



STL Sacramento  
Data Checklist  
High Resolution and Low Resolution Analyses

SEVERN  
TRENT  
SERVICES

Lot ID #: G4L020335 Method ID: Semivolatiles by HRGC/HRMS (1625 Modified)

Sample # 1-4

(For Internal COC requests only)

Date Delivered to Inst.: \_\_\_\_\_ Delivered By: \_\_\_\_\_ Delivered To: \_\_\_\_\_

Data Analyst: CP DB-5 8-23-01 DB-225  
Date initiated: 12-15-04  
Reviewer: MAF  
Date reviewed: 12-15-04

QA/QC verification:

	Initiated <u>DB-5</u> <u>8-23-01</u>	Reviewed <u>DB-5</u> <u>8-23-01</u>	Initiated <u>DB-225</u> (High Res Only)	Reviewed <u>DB-225</u> (High Res Only)
-Daily standard package(s) present?	✓	✓	NA	NA
-Method Blank present?	✓	✓	↓	↓
-LCS/DCS copy present and meets native recovery criteria?	✓	✓	↓	↓
-Internal standard recoveries within limits?*	10	10	↓	↓
-Ion ratios within + 15% of theoretical values?	NA	NA	↓	↓
-Other QC (Dup,MS,SD) within specs?*	NA	NA	↓	↓

Sample Analysis:

	Initiated <u>DB-5</u> <u>8-23-01</u>	Reviewed <u>DB-5</u> <u>8-23-01</u>	Initiated <u>DB-225</u> (High Res Only)	Reviewed <u>DB-225</u> (High Res Only)
-Correct sample aliquot used?	✓	✓	NA	NA
-All raw data present?	✓	✓	↓	↓
-Standard target DL's used? If RL's are used specify: <u>all values</u>	✓	✓	↓	↓
-DL's below TDL / LCL (please circle)? <u>all</u>	✓	✓	↓	↓
-All positives reported at levels greater than method blank DL's?	NA	✓	↓	↓
-Correct RRF's used for method?	✓	✓	↓	↓
-Internal standard amounts correct for method?	✓	✓	↓	↓
-Target analytes are not saturated?	✓	✓	↓	↓
-Dilution/splitting of extract taken into account?	NA	NA	↓	↓
-Have dilution calculations been verified?	NA	↓	↓	↓
-Has a manual calculation for the sequence(s) been verified?	✓	✓	↓	↓
-Are retention times (RT) correct?	✓	✓	↓	↓
-Manual integrations checked?	✓	✓	↓	↓

Comments: (Use other side if necessary)

\* Recovery limits:

NCASI 551:	40-120%***
Method 8290:	40-135%***
Method 1613:	25-150%***
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.)
CARB 428:	40-120%***
CARB 429:	50-150%***
PCBs:	25-150%***
DBD/DBF	20-150%***
Method 8280:	40-120%***
DFLM01.0:	25-150%***

\*\*RPD limits:

50%
20%
50%
50%
50%
50%



RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 12/03/04  
Time: 11:28:01

\*\*\*\*\*  
\*  
\* QC BATCH: 4338287 \*  
\*  
\*\*\*\*\*

PREP DATE: 12/03/04 8:00  
COMP DATE: 12/03/04 19:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
12/08/04 COMMENTS:	12/22/04	G4L020335-001 GX6RX-1-AC	4338171 D	09	6A	WATER	988.2mL 20.00uL	NA	NA	NA	DCM	120.0	.0	10UL 2350-65
12/08/04 COMMENTS:	12/22/04	G4L020335-002 GX6FF-1-AC	4338171 D	09	6A	WATER	979.9mL 20.00uL	NA	NA	NA	DCM	120.0	.0	10UL 2350-65
12/08/04 COMMENTS:	12/22/04	G4L020335-003 GX6FQ-1-AA	4338171 D	09	6A	WATER	987.1mL 20.00uL	NA	NA	NA	DCM	120.0	.0	10UL 2350-65
12/08/04 COMMENTS:	12/22/04	G4L020335-004 GX6F1-1-AC	4338171 D	09	6A	WATER	971.3mL 20.00uL	NA	NA	NA	DCM	120.0	.0	10UL 2350-65
12/07/04 COMMENTS:	0/00/00	G4L030000-287 GX8C2-1-AAB		09	6A	WATER	1000mL 20.00uL	NA	NA	NA	DCM	120.0	.0	10UL 2350-65
12/07/04 COMMENTS:	0/00/00	G4L030000-287 GX8C2-1-ACC		09	6A	WATER	1000mL 20.00uL	NA	NA	NA	DCM	120.0	.0	10UL 2350-67 10UL 2350-65

R = RUSH      C = CLP  
E = EPA 600    D = EXP.DEL)  
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 13

# WATER, 410.4, Demand, Chemical Oxygen

CH2M Hill Inc

Client Sample ID: OC2-OW6-W-0-82

General Chemistry

Lot-Sample #...: G4L020335-001

Work Order #...: GX6EX

Matrix.....: WATER

Date Sampled...: 12/01/04

Date Received...: 12/02/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/07/04	4342133

MDL.....: 3.1

CH2M Hill Inc

Client Sample ID: OC2-OW1B-W-0-83

General Chemistry

Lot-Sample #...: G4L020335-002

Work Order #...: GX6FF

Matrix.....: WATER

Date Sampled...: 12/01/04

Date Received...: 12/02/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)	3.8 B	10.0	mg/L	MCAWW 410.4	12/07/04	4342133

MDL.....: 3.1

**NOTE(S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

CH2M Hill Inc

Client Sample ID: OC2-OW3-W-0-85

General Chemistry

Lot-Sample #...: G4L020335-004

Work Order #...: GX6F1

Matrix.....: WATER

Date Sampled...: 12/01/04

Date Received...: 12/02/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)	6.6 B	10.0	mg/L	MCAWW 410.4	12/07/04	4342133

MDL.....: 3.1

**NOTE(S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

# QC DATA ASSOCIATION SUMMARY

G4L020335

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 410.4		4342133	4342096
002	WATER	MCAWW 410.4		4342133	4342096
004	WATER	MCAWW 410.4		4342133	4342096

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G4L020335

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/07/04	4342133

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G4L020335

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)	106	(85 - 115)	MCAWW 410.4	12/07/04	4342133

Work Order #: G0EF91AC LCS Lot-Sample#: G4L070000-133

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G4L020335

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Chemical Oxygen Demand (COD)	49.6	52.7	mg/L	106	MCAWW 410.4	12/07/04	4342133
Work Order #: G0EF91AC LCS Lot-Sample#: G4L070000-133							

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G4L020335

Matrix.....: WATER

Date Sampled...: 12/01/04

Date Received...: 12/02/04

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)			WO#:	GX6EX1AD-MS/GX6EX1AE-MSD		MS Lot-Sample #:	G4L020335-001
	107	(75 - 125)			MCAWW 410.4	12/07/04	4342133
	99	(75 - 125)	7.2	(0-20)	MCAWW 410.4	12/07/04	4342133

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G4L020335

Matrix.....: WATER

Date Sampled...: 12/01/04

Date Received...: 12/02/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)									
	ND	50.0	54.6	mg/L	107		MCAWW 410.4	12/07/04	4342133
	ND	50.0	50.8	mg/L	99	7.2	MCAWW 410.4	12/07/04	4342133

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# **Manual Colorimetric Analyses**

**Hexavalent Chromium**

**COD**

**Sulfide**

**T-Phosphorous**

# STL Sacramento

## LEVEL 1&2 REVIEW CHECKLIST GENERAL CHEMISTRY

LAB NUMBERS: 94L020335, 94L040125, 94L040206

ANALYSIS: COD      DATE: 12/7/04      ANALYST: PFrancis

**LEVEL 1 RUN REVIEW:**

	YES	NO	NA
1. Samples are properly preserved and verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Calibration criteria met	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Calibration verifications and second source reference are in control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Calculations have been checked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. QAS +/-or QAPP was consulted and followed for client specifics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Standard Tracking # noted on benchsheet +/-or runlog	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Manual integration performed, documented and approved	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**LEVEL 1 DATA REVIEW:**

1. Benchsheet complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. QAS +/-or QAPP consulted and followed for client specifics for data entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Data entered properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Copy of prep sheet and prep checklist attached to run	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed By & Date: PFrancis 12/7/04

**LEVEL 2 REVIEW:**

1. Level 1 checklist complete and verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Deviations, Anomalies, Holding times checked and approved	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Reprep/Reanalysis documented and chemist notified	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Client specific criteria met	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Data entry checked and released in Quantims	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Indication on benchsheet on review and release (dated & signed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Manual integration reviewed, approved, and properly documented	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed By & Date: BD 12/10/04

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STL Sacramento

PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>
---------------------	----------------------	-----------	----------------------	---------------------	--------------------	--------------------	-----------------------------

METHOD: VO Demand, Chemical Oxygen (410.4)  
 QC BATCH #: 4342133 INITIALS: DATA ENTRY:  
 PREP DATE: 12/07/04 7:30 PREP \_\_\_\_\_ INITIALS \_\_\_\_\_  
 COMP DATE: 12/07/04 9:30 ANAL \_\_\_\_\_ DATE \_\_\_\_\_  
 USER: FRANCISF

MS# 4342094

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
GX6EX-1-AA	G-4L020335-001	XX I 21 VO 01	Y-D	_____	OC2-OW6-W-0-82
GX6EX-1-AE	G-4L020335-001-D	XX I 21 VO 01	Y-D	_____	OC2-OW6-W-0-82
GX6EX-1-AD	G-4L020335-001-S	XX I 21 VO 01	Y-D	_____	OC2-OW6-W-0-82
GX6FF-1-AA	G-4L020335-002	XX I 21 VO 01	Y-D	_____	OC2-OW1B-W-0-83
GX6F1-1-AA	G-4L020335-004	XX I 21 VO 01	Y-D	_____	OC2-OW3-W-0-85
G0AGN-1-AA	G-4L040125-001	XX I 21 VO 01	Y-D	_____	OC2-OW5-W-0-86
G0AGR-1-AA	G-4L040125-002	XX I 21 VO 01	Y-D	_____	OC2-OW5-W-1-87
G0AGV-1-AA	G-4L040125-003	XX I 21 VO 01	Y-D	_____	OC2-OW8B-W-0-88
G0AGX-1-AA	G-4L040125-004	XX I 21 VO 01	Y-D	_____	OC2-OW2-W-0-89
G0A6L-1-AA	G-4L040206-001	XX I 21 VO 01	Y-D	_____	OC2-OW8-W-0-91
G0EF9-1-AA	G-4L070000-133-B	XX I 21 VO 01		_____	INTRA-LAB BLANK
G0EF9-1-AC	G-4L070000-133-C	XX I 21 VO 01		_____	INTRA-LAB CHECK

Control Limits

(75-125)

(75-125)

(85-115)

PDE115

Severn Trent Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 4342133

Date 12/07/2004  
Time 10:46:15

Method Code:VO Demand, Chemical Oxygen (410.4)  
Analyst:Filomena Francis

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
GX6EX-1-AA	1.2423	mg/L	10	12/07/04	.00	N		ND	10.0	1.00
GX6FF-1-AA	3.7660	mg/L	10	12/07/04	.00	N		3.8 B	10.0	1.00
GX6F1-1-AA	6.6051	mg/L	10	12/07/04	.00	N		6.6 B	10.0	1.00
GOAGN-1-AA	4.3969	mg/L	10	12/07/04	.00	N		4.4 B	10.0	1.00
GOAGR-1-AA	1.5675	mg/L	10	12/07/04	.00	N		ND	10.0	1.00
GOAGV-1-AA	ND	mg/L	10	12/07/04	.00	N		ND	10.0	1.00
GOAGX-1-AA	5.9742	mg/L	10	12/07/04	.00	N		6.0 B	10.0	1.00
GOA6L-1-AA	81.054	mg/L	10	12/07/04	.00	N		81.1	10.0	1.00
GOEF9-1-AA	ND	mg/L	10	12/07/04	.00			ND	10	1.00

Notes:

B Estimated result. Result is less than RL.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
GOEF9-1-AC		49.6	52.6624	106.17	12/07/04	(85-115)	1.00

Notes:

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Recovered DUP	RPD	Prep. - Anal.	Dil.
GX6EX-1-AD		1.2423	50	54.555	50.770	106.62	99.05	7.18	12/07/04	1.00

Notes:

TEST	PRODUCTION TOTALS						
	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

STL Sacramento

**CURVE CALCULATION BENCHSHEET**

(SOP # SAC-WC-0040)

ANALYST FRANCISF  
 REVIEWED BY BRJ  
 BATCH NO. 4342133

ANALYSIS DATE 12/07/04  
 REVIEW DATE 12/10/04  
 MS RUN NO. 4342086

METHOD NO. EPA 410.4  
 INSTRUMENT ID: SP2  
 ICV SOURCE: 2392-WC-59-4

FILE 120704A  
 CCV SOURCE: 2392-WC-59-7

Lab ID	Time	True Conc. mg/L	Background Absorbance	Sample Allquot		Extract Volume mL	Dilution	Absorbance	Raw Result	COD (Low)				
				gram	mL					mg/L	mg/kg	Recovery	Check	
1 Std0	10:33	0						0.478	-0.33500	Intercept = 1.5046E+02 Slope = -3.1546E+02  r = -0.999949  Linear Not Forced Weighting = 1 Absorbance corrected for background absorbance				
2 Std1	10:33	10						0.444	10.39066					
3 Std2	10:32	50						0.317	50.45414					
4 Std3	10:32	100						0.163	99.03507					
5 Std4	10:32	150						0	150.45513					
6														
7														
8														
9														
10	LCS/ICV:G4L023	10:33	49.6			2	2	1	0.31	52.66237	52.6624		106%	
11	BLK/ICB:G4L023	10:34				2	2	1	0.485	-2.54323	-2.5432			< RL
12	GX6EX	10:34				2	2	1	0.473	1.24230	1.2423			< RL
13	GX6EX-S	10:34	50			2	2	1	0.304	54.55513	54.5551		109%	
14	GX6EX-D	10:35	50			2	2	1	0.316	50.76960	50.7696		102%	
15	GX6FF	10:35				2	2	1	0.465	3.76598	3.7660			< RL
16	GX6F1	10:35				2	2	1	0.456	6.60513	6.6051			< RL
17	G0AGN	10:35				2	2	1	0.463	4.39691	4.3969			< RL
18	G0AGR	10:36				2	1	1	0.467	3.13506	1.5675			< RL
19	G0AGV	10:36				2	2	1	0.488	-3.48961	-3.4896			< RL
20	G0AGX	10:36				2	2	1	0.458	5.97421	5.9742			< RL
21	G0A6L	10:36				2	2	1	0.22	81.05382	81.0538			
22	CCV	10:37	50			2	2	1	0.317	50.45414	50.4541		101%	
23	CCB	10:37				2	2	1	0.474	0.92684	0.9268			< RL
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														

STL Sacramento (916) 373 - 5600